

\$3.00

# PROFILES

The Magazine for Kaypro Users  
May/June 1984



**Writing and  
the Computer**

BULK RATE  
U.S. POSTAGE  
PAID  
San Bernardino, CA  
Permit No. 448



## THE PERSONAL PRINTER BUILT LIKE A SHERMAN TANK PERFORMS LIKE A STRADIVARIUS.

**A Tough Act To Follow.** Frankly, an Okidata printer is the best printer on the market today. Why? We pack more performance features per dollar into our dot matrix printers than anybody. Bar none. Data processing at speeds from 80 to an incredible 350 characters per second. Exceptional letter quality printing at three times the speed of most daisywheels. Draft and color printing. High resolution all points addressable graphics for charts, graphs, illustrations and photos. Even alternate character sets for self-designed typefaces and symbols. (Print a G-clef, if you like.)

**Long-Term Engagement.** Our high performers are the most reliable printers available, with rugged steel

frames, laser-welded parts, and a print head (the most vital part of all) so strong we guarantee it for up to one full year. No wonder our warranty claim rate leads the industry at less than 1/2%.

**Perfect Harmony With Your Computer.** Every Okidata printer works in concert with the major names in personal computers. Better and faster, in fact, than the major computer name printers. (Which, by the way, aren't even made by the major computer companies.)

**Best Selection. Right Price.** Nobody offers you a better choice. There are eight Okidata printers in all, ranging in price from \$449 to \$2995, suggested retail. Suggest you call

1-800-OKIDATA (in NJ, 609-235-2600) to find the dealer nearest you. You'll get more for your money from your personal printer. Not to mention your personal computer.

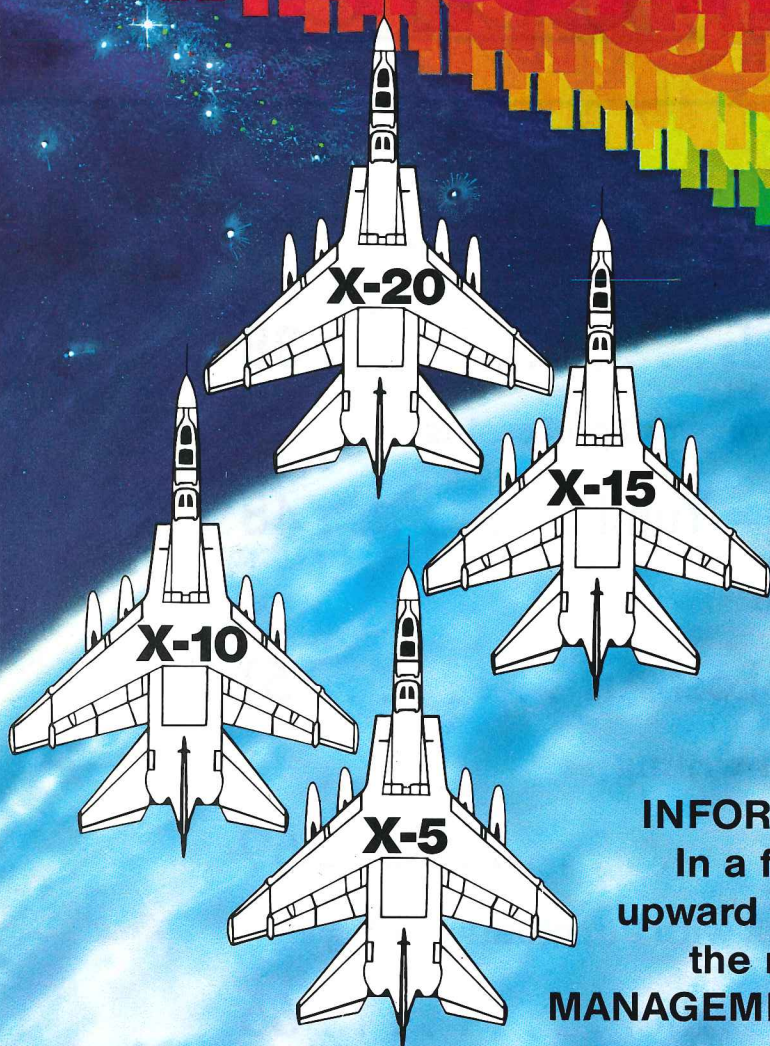


# OKIDATA

Mt. Laurel, NJ 08054

A subsidiary of Oki Electric Industry Company Ltd.

# INFORMAX



## INFORMAX welcomes the Kaypro 10

With its hard-disk storage, built-in or add-on, the Kaypro needs the INFORMAX series for speed and capability. In a flight of four potent versions, staging upward from a basic file manager at \$395 to the most powerful multi-user DATABASE MANAGEMENT SYSTEM on the market at \$995.

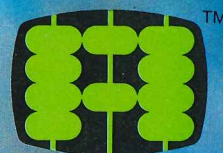
**The most usable DBMS available.  
Anyone can fly.**

The INFORMAX series of information management systems have four levels of user-friendly capability, with an attractive entry-level price and easily upgradable expansion. INFORMAX-5 sells for \$395; an electronic file manager with super speeds and simple screen-driven operation. INFORMAX-10, at \$595, provides extensive multi-file reporting capabilities. For \$795, the user gets INFORMAX-15 with full relational operations and a sophisticated security that prevents any unauthorized access to critical data. When needed, the INFORMAX-20, for \$995, delivers true multi-user, multi-tasking, multi-processing data base management. All of the series are perfect for Kaypro users, and the ability to step up from one level to the next by simply paying the difference is perfect for expansion.

### INFORMAX Sells Itself.

Nothing we can say will convince you nearly as easily as simply trying it for yourself. Send for more information and our demo diskette. Nothing enhances the performance of first-line hardware like the use of first-line software. INFORMAX in all series delivers exceptionally fast operation through proprietary design techniques, which will show off to great advantage in the new Kaypro.

**abacus data, inc.** <sup>TM</sup>  
1920 San Marco Boulevard  
Jacksonville, Florida 32207



**TOLL-FREE 800-874-8555 or  
IN FLORIDA (call collect) 904-398-8547.**

**DEALER INQUIRIES WELCOME**

---

# PROFILES

---

## Features

**Brave New Words . . . . . 38**

*by J. Michael Straczynski*

Science fiction writers on word processing

**Word Processing—Yum! . . . . . 48**

*By Mel Gilden*

One writer's conversion

**Punctuation: The Lost Art . . . . . 51**

*by Wayne Howell*

Adding rhythm to your writing

**A Clash of Styles . . . . . 59**

*by Anne Wayman-Blick*

Comparing Grammatik with Punctuation & Style

**Three on Perfect Writer . . . . . 66**

*by Anne Wayman-Blick*

New books reviewed

**Printing With Perfect Writer . . . . . 70**

*by Kristin A. Farry*

An expert explains printer configuration

**S-BASIC Data Files—Part II . . . . . 82**

*by Tyler Sperry*

Understanding the READ statement

---

**Volume I, Number 6**  
**May/June 1984**  
**The Magazine for Kaypro Users**

---

# Columns

Foreword . . . . .	14
<i>by Tyler Sperry</i>	
The Cottage Computerist . . . . .	17
<i>by David Thompson</i>	
Ms. Perceptions . . . . .	22
<i>by Terian Tyre</i>	
Up and Running . . . . .	30
<i>by David Gerrold</i>	

# Departments

A Note About Subscriptions . . . . .	6
Letters . . . . .	8
Q & A . . . . .	12
Technical Forum . . . . .	86
New Products . . . . .	90
Users' Groups . . . . .	98
Advertisers' Index . . . . .	110

EDITOR & PUBLISHER  
Tyler Sperry

SENIOR EDITORS  
Terian Tyre  
Anne Wayman-Blick

COPY EDITOR  
Susan Hyman

EDITORIAL ASSISTANT  
Roxanna Li Wright

CONTRIBUTING EDITORS  
David Gerrold  
David Thompson

ART DIRECTOR  
Eric Mattei

ART ASSISTANTS  
Matt Schulz  
Joanne Ellis

ASSISTANT PUBLISHER  
Gwyn Price

EDITORIAL OFFICES  
533 Stevens Avenue  
Solana Beach, CA 92075  
619-481-4353

COVER BY  
Joyce Kitchell

ADVERTISING  
Nancy Donabedian  
249 S. Highway 101, Suite 321  
Solana Beach, CA 92075  
619-481-4354

*PROFILES* is published bimonthly by Kaypro Corporation, Solana Beach, CA.

Registered owners of Kaypro computers, within the United States, are entitled to a six-issue complimentary subscription. If owners are not receiving the magazine, they should send their name, address, and the serial number of their machines to the address below.

Subscriptions within the United States are available for \$12.00 per year to people who are not registered Kaypro owners.

Subscription orders and change of address notifications should be mailed to *PROFILES* Circulation, P.O. Box N, Del Mar, CA 92014. Checks must be made payable to Kaypro Corporation.

For Canadian and international subscriptions, send all inquiries to: Kaypro International, P.O. Box N, Del Mar, CA 92014.

Contents of this issue are copyright 1984 by Kaypro Corporation, all rights reserved. Reproduction in any form without express written consent of the publisher is prohibited.

# THERE'S ONLY ONE...

## 1200-300 Baud, Internal Smartmodem for Kaypro 2, 4 or 10! **DS1200SMT**

That's right, there is only one DS1200SMT... and it's available now! The DS1200SMT is a self-sensing 1200-300-110 baud, Hayes<sup>TM</sup>\* compatible smartmodem which is installed internally in your Kaypro. You no longer need four hands when traveling; simply install the modem inside your Kaypro 2, 4, or 10 and it goes wherever the computer goes. Don't spoil your Kaypro's portability with an external modem; it just doesn't make sense.

Menu driven software comes with the modem package at no additional charge. This data

communication, file transfer program is State-of-the-Art and comes complete on diskette. There's no need to worry about extra purchases once you get the modem package either; it comes with all needed cables and mounting hardware. You can install it easily with no drilling, soldering, or computer modification needed. Plus, for a limited time, included is a \$50 credit with NewsNet, the new business information network. And what about the price? Only a low \$427.50 for all of this!

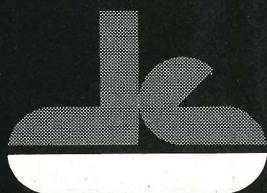
## Plus, don't forget the DS300AD...

Please don't. Because this 300 baud auto-dial/auto-answer modem is a wonderful, inexpensive way to be introduced to data communications. It also comes with software, cables, NewsNet, and is internally mounted... cost, only \$199.00. Both modems have a 180

day warranty! If you have any questions, give us a call, or contact your local Kaypro dealer. Don't be left out! Give your Kaypro the inner voice it deserves... a Datasolvers' Internal modem.

*Call now for your free information package:*

## (316) 264-5068



**datasolvers inc.**

**440 Maple Wichita, Kansas 67213**

\*Hayes is a trademark of Hayes Microcomputer Products, Inc.

Even the fastest fingers slow down when they struggle with computer commands. And no matter what software you use, you still have to enter the same things over and over again.

That's why you need SmartKey II™, the software that lets you control your computer with a single keystroke.

Add SmartKey II to WordStar and you can juggle margins and insert "boilerplate" paragraphs or sentences with just one key. Add it to Lotus 1-2-3 and you can concentrate on the numbers instead of the mechanics. You can even tap into Dow Jones with the press of a finger.

Don't type in the same thing twice. SmartKey II can remember commands, words, paragraphs, even entire letters. With SmartKey II, you can work faster and never worry about which keys to press.

It's easy to see why thousands of people all over the world are already using SmartKey II to make their lives easier.

#### SmartKey II Features:

Assign more than 3,000 characters to a single key.  
Define over 300 function keys.  
An exclusive "SuperShift" lets every key have up to four meanings.  
Change any keyboard to the Dvorak layout.  
Keys can be redefined while other software is running.  
Key definitions can be saved to disk for later use.  
SmartKey II is invisible to other software.  
SmartKey II runs on the IBM PC and compatibles, the PCjr, the Kaypro II, 4, and 10; plus all other MS-DOS, CP/M, CP/M-86, and CP/M-Plus based personal computers.

SmartKey II is a trademark of FBN Software. WordStar is a trademark of MicroPro, Inc. Lotus 1-2-3 is a trademark of Lotus Development Corporation. CP/M is a trademark of Digital Research, Inc. MS-DOS is a trademark of Microsoft, Inc. PC-DOS is a trademark of IBM.

Best of all, SmartKey II is still only \$89.95.

To see how SmartKey II can speed up your work, pick up a copy at your computer dealer. It's the smartest move you will ever make. Software Research Technologies, Inc.\*  
3757 Wilshire Boulevard, Suite 211, Los Angeles, CA 90010.  
(213) 384-5430.

**SMARTKEY II™**

*A Stroke Of Genius.*



# The ten slowest parts of your computer.



# A note about subscriptions

## How to subscribe

Subscriptions to *PROFILES* are available to everyone who purchases a Kaypro computer, or already owns one. The cost of six issues is included in the price of your computer when bought in the United States.

For those in the United States, the situation is fairly straight-forward: send in your warranty card. We have counted heavily on the return of warranty cards to establish our mailing list. Developing the list has turned out to be trickier than we had anticipated—roughly a third of our users aren't getting the magazine because *something* went wrong. If you've sent in your card, you should be receiving the magazine.

## When things go wrong

If you've sent in your card and *aren't* receiving the magazine, please call or write to our Editorial Offices. (Our subscription number is 619-481-4353.) Remember to check the back of your machine for the serial number—we need that number to credit your account.

Address changes can also be handled at that number, but remember that calling into our offices will *not* register your warranty. You still have to send in your warranty card.

## Magazine time

Contrary to what some dealers and users believe, we do not have psychic subscription agents scattered throughout the world. There is no earthly way for us to know which copy of the magazine was packed with your computer. *Your subscription begins when you get your first issue in*

*the mail, and has nothing to do with the complimentary issue packed with your machine.*

Also, it takes about two months for you to get your first issue of *PROFILES*.

## Back issues

The requests for back issues have been overwhelming. Indeed, we are now **SOLD OUT** of the first four issues. We're sorry, but no amount of wheedling, pleading or voodoo is going to conjure up extra copies of the first four issues.

If interested in the other available issues, check with an authorized Kaypro dealer. Call 800-447-4700 to find the dealer nearest you. If that isn't successful, *PROFILES* will send them out while supplies last, for \$3.00 an issue (including postage and handling). Send your name and address to our Editorial Offices, 533 Stevens Avenue, Solana Beach, CA 92075 Attention: Back issues. Enclose a check or money order (no cash, please) made payable to Kaypro Corporation. Allow two to four weeks for delivery.

## International subscriptions

Those who bought their Kaypros outside of the United States (including Canada) can now get subscriptions through Kaypro International. Please send your name, complete address and serial number of your Kaypro to:

Kaypro International  
P.O.Box N  
Del Mar, CA 92014

The Kaypro International office will contact you and your local dealer to establish shipping

charges.

## Disclaimer

Reviews, editorial references, and advertisements should not be taken as an endorsement of any products not specifically manufactured by Kaypro Corporation. We are not liable for any damages arising out of purchase or use of any of these products.

In the case of reviews, opinions expressed are those of individual members of our staff, and do not represent any form of corporate certification. They also do not necessarily reflect intensive technical analysis as would be provided by a laboratory or professional testing firm. Other editorial copy is provided for the interest of our readership only, and may derive from telephone interviews, press materials, or casual exposure.

Responsibility for products advertised lies with the advertisers. We will not knowingly publish fraudulent materials. Should there be any consumer complaints arising from goods or services purchased from our advertisers, we would appreciate notification to that effect, to aid in our own screening process. □

# A LITTLE SPIRIT CAN GIVE YOU EXTRAORDINARY PRINTING POWER.



Spirit's the microprinter that lets you do more things yourself. And do each of them letter perfect. It prints standard, bold, expanded and condensed type faces. Even *italics*. And finely etched graphics. All because every impression has a crisp, square edge to it for unmistakable clarity.

That's the power to look perfect in print. And a power that operates almost without sound. The

Quietpak option smothers printer noise. So Spirit rushes through work with barely a whisper.

There's also the power to manage paper. Variable width tractors adjust for narrow jobs like labels. Or wider jobs like correspondence. All of which are handed to you immediately thanks to Spirit's Quick Tear edge.

When you can have your own personal microprinter that does so much for so little, aren't you powerless not to act?

For more information and the name of your nearest dealer, call toll-free: 800-447-4700. In Illinois, 800-322-4400.

In Canada, call 417-661-9783. \*Manufacturer's suggested U.S. retail price with parallel interface.

**MANNESMANN**  
**TALLY**

# Letters

*While Kaypro Corporation finances this magazine, it does not necessarily endorse or even agree with the editorial content. Unless there is a specific note to the contrary, all opinions expressed in this magazine are those of the staff and/or individual writers involved.*

## **A truly hard disk**

I'd like to share with you an incident that answers the critics' misgivings about the sturdiness of the Kaypro 10.

I was driving home from work on a San Francisco freeway, with my 10 on the front seat next to me, when the cars in front of me stopped practically in their tracks. I slammed on the brakes. The 10 took off as if weightless, and only the dashboard, which has gashes to prove it, kept the computer from going through the windshield. It finally ended on the floor, upside down.

My shaking was probably due as much to the fact that I hadn't backed up the hard disk for a couple of weeks as to the close shave on the freeway. As soon as I got home, I set up the computer. I was relieved and *shocked* to discover that the 10 survived the pounding, and continues to serve me well in my accounting work and writing of laudatory letters to computer magazines.

Come to think of it, it may be helpful to remind Kaypro owners that, given the value of the machine and the data therein, it's sensible to strap it in when it's

riding with you.

Phil Patiris  
San Francisco, California

## **First class treatment**

I found out that my Kaypro is really something special.

While flying from Tucson to Florida recently, I learned to my embarrassment that the Kaypro was just a little too fat to fit under the airline seat. When I explained the problem to the flight attendant, she said the plane was crowded and there might be no place to put it. Finally, she returned with, "there is an empty seat in first class—we could put it under that."

"I have a different idea," I proposed. "Why not leave the computer here and I can take the empty seat in first class?"

"Not possible," she answered firmly. "But we'll be glad to put your computer there!"

So I sat in my seat behind the wing, while my Kaypro rode first class all the way to Florida.

David H. Levy  
Tucson, Arizona

## **Delay loop**

In the January/February issue you started a series called "Understanding S-BASIC Data Files." Thrill upon thrill, I had tried for hours to use and understand data files. I even wrote the author (of S-BASIC) and asked him to send some examples...

any examples. Just go to his files and copy anything... No reply!

The article calmed my soul... at last some information.

With great anticipation I waited for my next *PROFILES*, and guess what, no more data files. No more series.

May I quote the last four words of the first article—"but that's next issue's topic."

This faithful and patient Kaypro owner/user is faithfully and patiently waiting and waiting and waiting...

Richard H. Zbinden  
Klamath Falls, Oregon

*As the unofficial S-BASIC Editor, I am all too often forced to postpone writing articles (and correspondence) in order to deal with matters affecting the entire magazine. In this case, events conspired to make issue number 5 smaller than originally planned, and the second installment in the series on S-BASIC data files was postponed until this issue. Next issue will see an increase in the size of the magazine, and the inclusion of two(!) S-BASIC articles.*

While your letter indicates you wrote to Gilbert Ohnysty for information, if your original letter had been sent to me it might have easily wound up in one of the several piles on my desk. Failure to reply to some of the letters we get is a mixture of good intentions and Crisis Man-

(continued)



The personal,  
portable  
daisywheel  
printer.

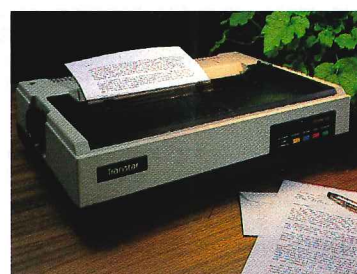
Only \$599.

The new briefcase size Transtar 120 is easy to take with you to work, to school and home again. The 120 is light, only 19 pounds, and easy to use with all the best selling word processing programs.

Plug it into your computer and watch this precision printer purr along at 14 cps. It's a tough, durable little machine and does everything a big, heavy, expensive printer does — including superscript, subscript, underlining and boldface, only a little slower. Automatic single sheet loading adds new convenience.

Just think of it: everything you want in a letter-quality printer ... anywhere you want it.

Only \$599.



**Transtar 120**  
P.O. Box C-96975, Bellevue, WA 98009

by **Vivitar**

## AN INVITATION TO JOIN KUG

**KUG**, The International Kaypro Users' Group, cordially invites you to join the many thousands of members who share in mutual Kaypro computer excitement.

The Kaypro Users' Group was established at the same time the Kaypro computer was being introduced. That was back in the autumn of 1982. Since then we have both grown and matured. **KUG** now has members in all 50 states and countries half-way around the globe. Although **KUG** is an entirely independent organization, we rely on the information that is passed on to our members from the Kaypro Corporation.

That information, as well as information from members and **KUG** staff, is presented in our bi-monthly "**KUGRAM**®" newsletter.

The articles and programs in **KUGRAM**® are aimed at the first time user and the "pro." We have received welcoming comments from both. Our article (tutorial) on CP/M titled **CP/M STUFF**, is regarded as a fine learning experience in working with the Kaypro operating system. Other columns include **BOX 100** (letters from members), **CHAPTERS** (new chapters from around the world), **IN RESPONSE** (answers to many of the questions we receive), **VENDORS** (suppliers of Kaypro compatible products) and **REVIEWS** of software and hardware for the Kaypro.

**KUG** also operates its own Bulletin Board system. You can meet and communicate with other **KUGGERS** through this electronic medium. The **KUG** library has an excellent public domain modem program. In fact our disk library has many other categories such as **GAMES** (Adventure, Pac-Man, Eliza and more), **UTILITIES** (programs to make your file handling easier), **HELPS** (helpful hints on **MBASIC**, **CP/M**, and other languages) plus others that are constantly being added and updated.

Other services include free information on starting your own local **KUG** chapter, printer configurations for the Kaypro, software and hardware update information and much more.

To learn more about your Kaypro Users' Group and receive your membership application, send in the attached reply card. If the card is missing, just send your name, address, phone number and Kaypro model to:

**KUG.....BOX 100P.....MALVERNE, NY 11565**

Do it now and find new friendly **KUGGERS** through your Kaypro Users' Group.

KUG is an international independent organization.

## LETTERS

(continued)

*agement, not deliberate rudeness. While I make a point of reading the mail that comes my way, (and sometimes acting on the reader's suggestions,) the sheer volume alone precludes personal replies.*

*For those who have technical problems demanding solutions faster than the leisurely pace of Q & A and Technical Forum, I would suggest writing (or calling) Kaypro Technical Support. In your case, I would suggest the nearest User Group as a source of example S-BASIC programs.*  
—TS.

### Dangerous perceptions

I wish that I didn't have to use the Letters column to be critical of a Senior Editor (thereby diminishing the chances of this appearing in print), but I am afraid that I will have to take issue strongly with Terian Tyre's *Ms. Perceptions* column that appeared in the January/February 1984 issue. I feel that the first part of the article (concerning biological issues) is dangerously misleading, while the second part (socialization issues) is self-contradictory.

In the first section, Tyre reports "evidence" from psychologists that women are more adept at left brain tasks, which involve step-by-step thinking and language skills. The conclusion, though not specifically stated, is that "left brain" women "make better programmers than men."

The above argument is dangerous for several reasons. First, as Tyre points out, the evidence is controversial. As a matter of editorial policy, one should exclude controversial scientific theories unless one has the space and expertise to explain the matter fully to the readers. Secondly, the whole matter of innate or genetic

dispositions has the potential for misuse (e.g. as material for bigotry or sexism). One must be very careful in presenting the material, and careful to qualify it with the constant reminder that such findings, even if non-controversial, should never be generalized to every member of either sex.

An interesting example of the danger in Ms. Tyre's article is that of Dr. Tadanobu Tsunoda, who in a best-selling book (in Japan) makes the case that since Japanese are left-hemisphere oriented by genetic inheritance, they should not even attempt to learn foreign "right-brained" languages. (If they are truly left-hemisphere oriented, does that make them better programmers? The evidence does not seem to support it.) In fact, left brain/right brain "evidence" has already made its way into many forms of bigotry and sexism (some Japanese also use the genetic disposition argument to justify the strong sexist corporate bias).

In the second part of Tyre's article, the claim is made from a standpoint of socialization that "Women are often educated to pay more attention to detail..." However, it is this very form of sexist socialization, where women are brainwashed into being wives and mothers, that would be the first to go (or be attenuated) in a truly non-sexist education. You simply can't have it both ways.

Finally, let us take Ms. Tyre's point one step further. By her arguments, we should have women writing the user interface, and men writing graphics packages (the right brain involves spatial orientation). In fact, we simply do not know what talents are required to write good programs (or else why would there be so many cruddy ones),

(continued)

and to claim that socialization, or genetics makes for a good programmer is debasing to both the people and the profession. A proper computer science education and proper project management, combined with a certain pride in workmanship, are the only things that are germane. One's gender is immaterial.

Thomas Litant  
Tokyo, Japan

*Your point about the danger of bringing up controversial theories without the space to explain them is well-taken. I will avoid that in the future.*

*Secondly, I didn't specifically state that "women make better programmers than men" on purpose. I don't think it's true. My intention is to raise questions in the minds of those who*

*adhere to a superficial view of things. Seeing more men than women in the field leads some people to believe men excel at that job. My purpose was to highlight material that conflicts with that view. —TT*

### **New policy**

I purchased a copy of PROFILES at a local computer store. I read that "subscriptions within the United States are available at no charge to registered owners ... and at \$12.00 per year for all others. While I certainly believe that your publication is worth every penny of its reasonable subscription price, I nevertheless feel that we, here in Great White North are being discriminated against.

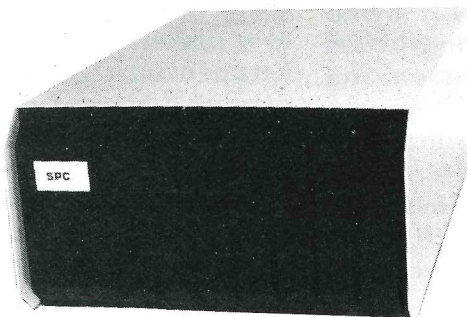
Surely you would not wish to deny your Canadian computer brethren an opportunity to read

your excellent publication!

Elliot Goldstein  
Vancouver, British Columbia  
Canada

*The original plan for Canadian distribution included our Great White North subscribers in normal U.S. bulk mailings. As things stand now, all foreign subscriptions are being handled through Kaypro International and the local dealers. Check the notice elsewhere in this issue for more details.*

## **NEED A HARD DISK DRIVE?**



The DISKIT Expansion Chassis. Under the removable front bezel is any combination of 10, 20, 30, or 40 Mb. plated media drives with optional 5 Mb. REMOVABLE CARTRIDGE.

DISKIT also offers a 5 Megabyte removable cartridge disk as an option to back up your valuable data for only \$1195. Call us now for details, and order while delivery time is short, about 2 weeks. In addition to the KAYPRO computer shown, we also support IBM, SANYO, TELEVIDEO, CORONA, NORTHSTAR, EAGLE, etc.

### **SYSTEMS PERIPHERALS CONSULTANTS**

9747 Business Park Avenue  
San Diego, California 92131  
(619) 693-8611

## **TAKE YOUR PICK...Z80 or 8088**

Now you can use the inexpensive DISKIT hard disk subsystem with your Z80/CPM or 8088/MSDOS computer, either in an outboard expansion chassis or embedded in an existing 1/2 high slot. The DISKIT features from 10 to 150 Megabytes of data available at speeds that will really make you smile. Installation is easy, and the savings are yours when you buy direct.



The KAYPRO II with embedded 10 Mb. DISKIT, and expansion chassis.

# Q & A

*We welcome and read all your letters. We pick those we find of general interest to print and respond to in the magazine. We will usually do some editing of the letters we print, and we simply can't respond personally to individual letters.*

*For those questions which require a personal or immediate reply, you can do what we would: call Kaypro Technical Support at (619) 481-3920.*

## **X-Rays considered**

Is there any risk of damaging my Kaypro II by carrying it through airport security devices?

Barry J. Cerf, PhD  
New York, New York

*While it is possible to erase the EPROMs used in Kaypros with prolonged exposure to X-rays, the devices used at airports are not powerful enough to make this a problem. So much for the machine itself.*

*Floppy disks should always be kept away from sources of X-rays and magnetic fields. This should not be a major problem; airport personnel are becoming quite accustomed to inspecting diskette boxes by hand.*

## **Power glitches**

Instructions for the Kaypro 2 indicate that the power switch should be turned on before a diskette is inserted, and the procedure reversed when shutting down. A user of an IBM PC and an

Apple has informed me that the drive might damage the diskette and that power should be turned on after inserting the diskette. Is the Kaypro different, or is one of these procedures incorrect?

Larry Gardner  
Columbus, Ohio

*While that procedure might be necessary for the Apple, the procedure listed in your manual is correct for the Kaypro. For the first few milliseconds after power is turned on, the electronic circuits inside the Kaypro and the drives are stabilizing. If a diskette is inserted during power up, it is possible (depending on the design of the drive) for the initial surge of power to find its way into the recording heads and zap some data on the diskette.*

*The same logic indicates removing the diskette before turning off power, because some drive circuits will "die" before others. Indeed, the rule of never turning a computer off with diskettes in the drive can be traced back to the old days of 8" machines.*

*As far as the drive damaging the diskette, I've never heard of any problems with inserting a diskette while the motor is running. Indeed, this is one diskette manufacturer's recommended procedure. —TS*

## **Handling .FIN files**

*If you're using Perfect Writer*

*and have access to bulletin boards, you might want to look for the public domain programs DUV-77 and DEFIN.TXT. DEFIN.TXT, by Richard Dedic and Dr. Willem Meijer, both of the University of Kentucky, will show you how to use DUV-77 to turn a .FIN file back into a text file. Handy, if you've lost your original. —AWB*

## **Compatible?**

Will any CP/M-based program run on the Kaypro?

John E. Marrdocco  
Edgewater, Florida

*Point blank: no. Even if a program has been "downloaded" to a diskette format that your Kaypro can read, there is always a chance the program has been customized for some feature of another machine. An obvious example would be the programs written for the Osborne I that expect a video display that scrolls horizontally.*

*It is possible to write good programs that can be used on any CP/M-80 machine (for example, PIP) but this requires a far-sighted design from the programmer. The best way to find out if a specific program will work on a Kaypro is to call the manufacturer and ask. □*

# Why are the RCPMs going private?

**Bulletin board users may be surprised to discover some RCPMs now charge a fee.**

by Steve Sanders

One of the most asked questions on my Tampa Bay Bandit Board is "Why are you now charging a fee?" The problem with open systems is and always has been that anyone with a modem, regardless of computer type, can use it. In the past this was no problem as only serious or at least semi-serious computerists had modems or knew what to do with them.

The recent trend toward telecomputing and lowered prices of modems has given rise to a real traffic jam on most of the popular systems around the country. My steady users were having great difficulty in logging on because some non-CP/M computerist, on a non-CP/M machine, was tying up the system for hours doing no more than TYPEing everything in sight. Even worse is the user who for some unknown reason either doesn't know or doesn't care that there is more than a message system available.

To make the system accessible means to limit the number of people who can use it. It also gives the system operator a way to raise needed capital for things like the average month's phone

bill—usually \$250.00 even with MCI. After all, all those new programs do not just magically appear without considerable cost—I have to modem them just the same as you do.

And let's not forget the cost of a computer, modem and dedicated phone line. My system is a Kaypro 10 with a Hayes 1200 Smartmodem meaning my equipment costs alone are over \$3,500.00. The only time I get to use it is when I update the files. This adds up to a grand total of about 45 minutes a day; the members use it the other 23 hours and 15 minutes.

The fee I charge (\$25.00) is roughly equivalent to what you would spend using CompuServe for about two hours and on my system, it's good for a year. The number of really good public domain programs is staggering and it grows daily.

Jud Newell, who is the System Operator for the Toronto Systems RCPMs, is really the pioneer in the private RCPM concept. He started with one system in Toronto, and vowed to start another system when it exceeded 200 members. He now has brought system #4 on-line and

doesn't know where it will stop.

I am also near the 200 mark, and have plans for using my Kaypro 2 (which is now a 4) with a 16mb Delphi hard disk for system #2. I'm also thinking about a system based around the 8088 and carrying IBM-PC and MS-DOS as well. There will be a lot of dual processor Kaypros on the market this year and I would like to offer them some good public domain software as well.

I have always believed in supporting systems that supported me, either by uploading good programs, or at least by offering some monetary remuneration. I mean, no one has ever said that an RCPM had to be free. Some people leave nasty comments when signing-off after being refused entry, but then again some folks used to leave nasty comments when they were let in.

Just take a second to see our (the sysop's) side of this story, and hopefully understand our dilemma. We are just trying to continue to offer the same service as before, making sure those who really use the board can get into the system. □

# Foreword

by Tyler Sperry

**R**ecently I received a letter from a reader who was disappointed with the magazine. This is not that unusual: many people write in to tell us how *PROFILES* could be better. Unlike the usual complaints, however, this letter was concerned with the editorial tone rather than the content. Or, as Roger Smed put it himself:

*Dear Mr. Sperry,*

*I've been enjoying PROFILES from the very beginning. But now, after finishing the March/April issue, I feel a bit depressed.*

*Why the depression?*

*I'm beginning to feel that I shouldn't be happy with my Perfect Writer, Filer and Calc software, nor with much of the other bundled software I received. The feeling isn't the result of the software doing less than everything I want and asked it to do, it's because the undertone of PROFILES is telling me I shouldn't be happy with the software I'm using.*

Roger then went on to list several examples of what he was talking about and concluded:

*You are doing a great job with PROFILES, but keep in mind that you have lots of readers who really like what they are working with and don't want to read that they should not be happy with it.*

Well, we've received dozens of letters patting us on the back for our editorial independence from Kaypro Corporation, and it was about time for another point of view to surface. Since this was

the first complaint, and the actual examples raised were minor, I hadn't planned to do anything more than print the letter in the normal Letters department. But, as this is written, there is a new software bundle for the Kaypro computers featuring MicroPro instead of Perfect software, and it might just be a good idea to restate the magazine's policies in light of the recent changes.

First of all, this magazine goes to readers who have already bought a Kaypro computer. It therefore seems reasonable to assume we can stop the sales pitch in the pages of the magazine, and concentrate instead on helping our readers get the most out of their purchase.

The Technical Forum and other departments deal with the letters that come in. We do not throw away all of the positive reports we get about Perfect Software; it is just a curious fact that most of those glowing letters also mention this one little problem that they haven't been able to get around.

Concerning the future of the magazine's emphasis: owners of Perfect Software shouldn't worry. We will continue to run articles like Kristin Farry's *Printing With Perfect Writer* (in this issue) as long as there is a demand for them. And barring a mass conversion to WordStar—which seems unlikely considering the enthusiasm of the most Perfect users—we will continue to run articles on the Perfect line.

## Old issues

When we started *PROFILES*, no

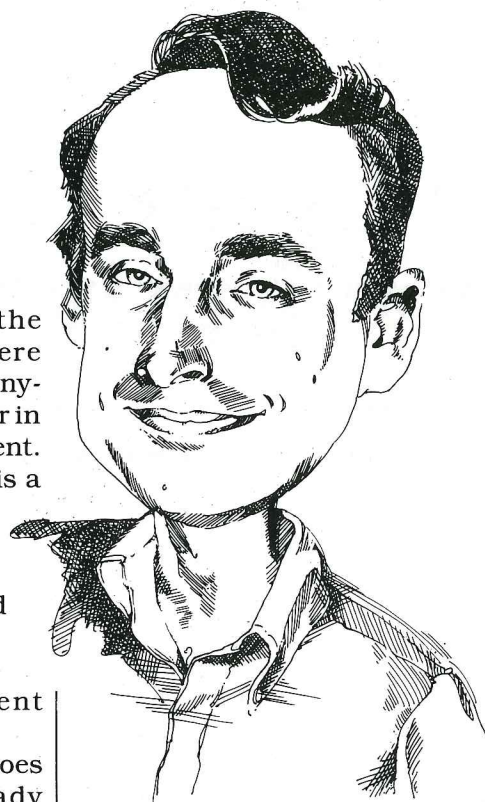


ILLUSTRATION BY JOYCE KITCHELL

one knew how popular the magazine would prove to be. It wasn't until recently, when we began to get complaints about the lack of back issues, that we began to plan for the extra demand. How can we help those who want the back issues already out of print?

The good news: we have settled on an approach that should help our readers without costing an arm and a leg. We are putting together a collection of the best from the first year of *PROFILES*. Not only will most of the previous editorial material be collected and updated, but we will also include some new articles to update the old topics. (If you have a favorite article that you think should be included, drop us a line.)

And the now bad news: this yearbook involves all the production hassles of a normal book, and will take as long to produce. Therefore, don't expect the book in your stores tomorrow, or even next Tuesday. We'll print more details as the book becomes more real. □

Your troubles are over!

# THERE'S A NEW STAR IN WORD PROCESSING

---

**ANYONE FAMILIAR WITH WordStar® CAN USE *NewWord*™/*MergePrint* IMMEDIATELY, AND ENJOY SUPERIOR PERFORMANCE AND EASIER INTERACTION—AT ABOUT ONE-THIRD THE COST OF WordStar®/*MailMerge*®**

---

NewWord makes it easy for you to turn to uncomplicated, efficient word processing. Now you can get letter perfect, professional-looking documents without a great deal of sacrifice.

The proof of NewWord's superior performance is in the printout. With dot matrix printers, NewWord is exceptional, supporting every advanced capability including microjustification, variable line height/character width, and alternate pitches on the same line.

NewWord's full range of features are what you'd expect to find only on the most expensive word processors. NewWord also gives you such advanced features as unerase deleted text, find a specific page in a document, and multiple-line headers and footers. Its versatility includes automatically changing ruler lines, on-screen display of boldfacing and underlining, and automatic indentation for programming.

Yet, for all its sophistication, NewWord is simple to use. There are no complicated codes to memorize. On-screen menus of functions let you work effortlessly.

And if you're familiar with WordStar, you'll be able to write faster and more effectively immediately. NewWord is entirely compatible with WordStar—key stroke, command and file compatible. Even third party programs, video training and books.

NewWord comes with a complete user manual, including: an *Installation* guide to personalize NewWord, a *Do-It-Yourself* tutorial, an *Encyclopedia* of facts explained with numerous examples, and a handy *Pocket Reference* of commands.

We provide direct telephone support to NewWord users and dealers. A third party toll-free support service is also available as an option.

Perhaps the best thing about NewWord is that at **\$249.00**, NewWord costs less than programs featuring far fewer capabilities. And with *merge print* included, NewWord is an outstanding value.

Let a New Star work for you.

Call us today, toll-free

**800-832-2244**

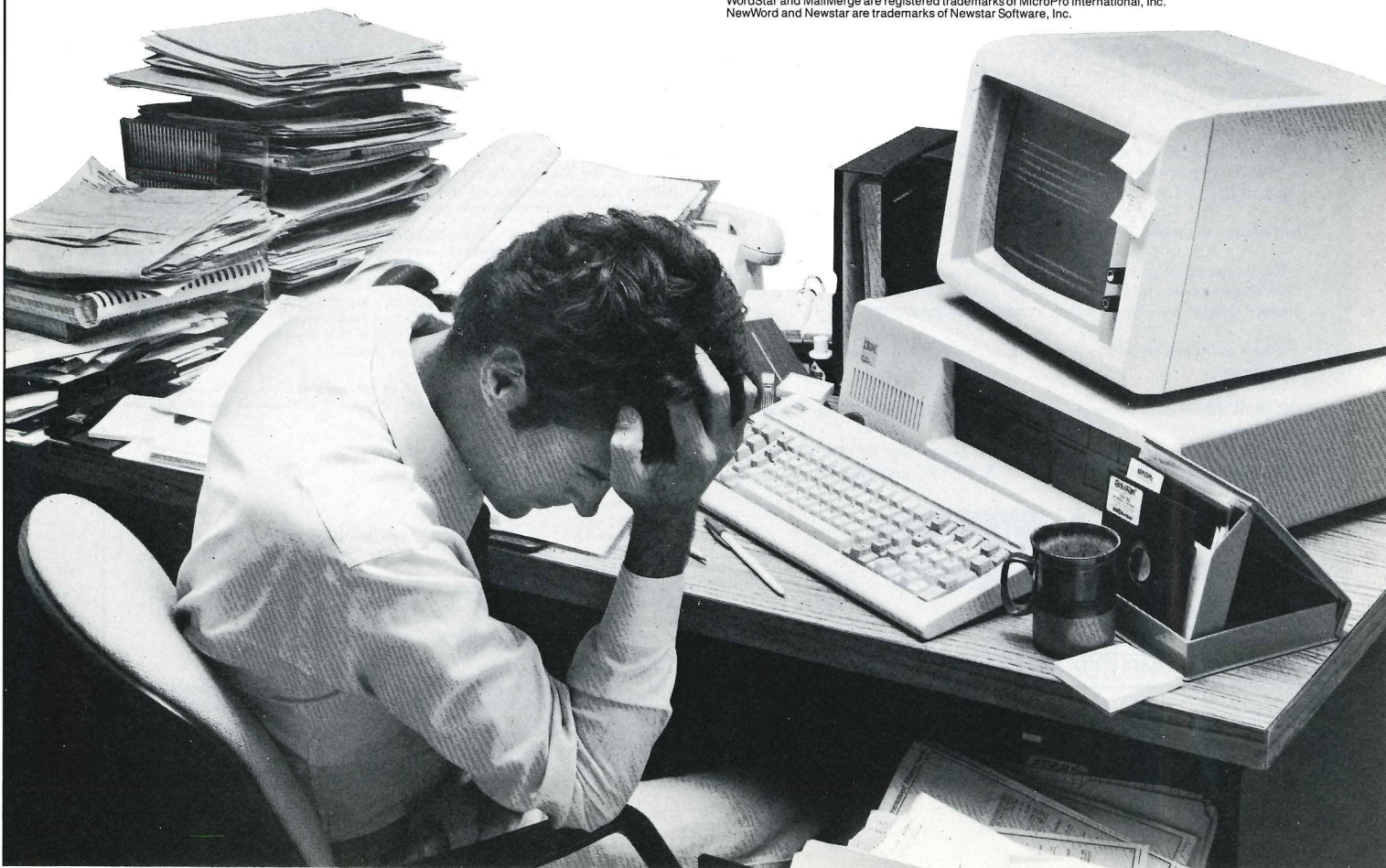
(In California, call 800-732-2311)



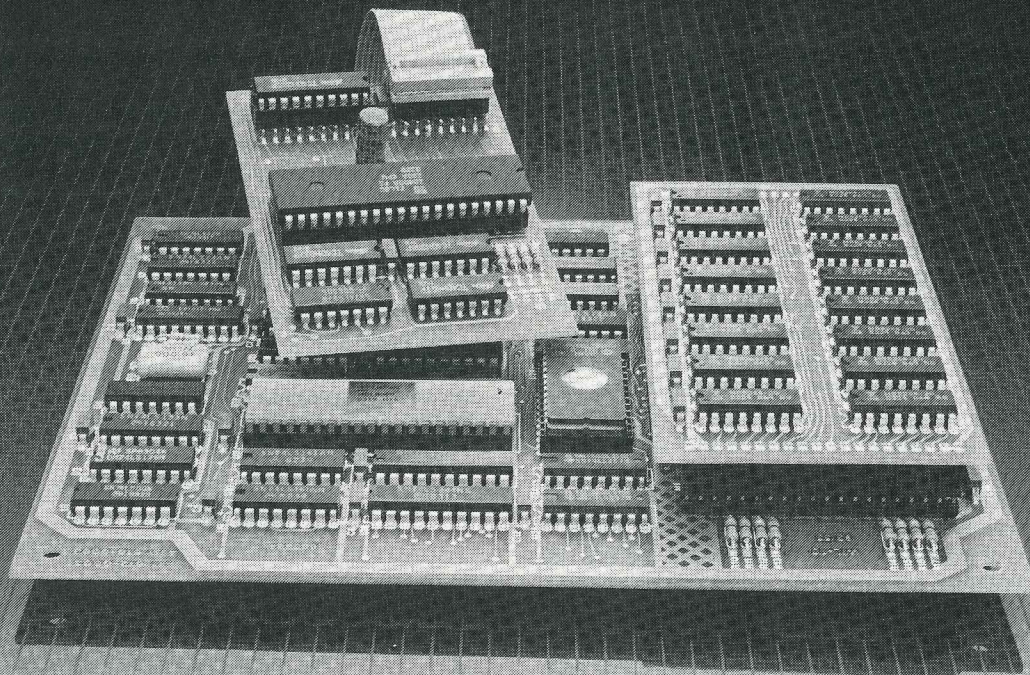
**ROCKY MOUNTAIN  
SOFTWARE SYSTEMS**

1280-C NEWELL AVE., SUITE 1004; WALNUT CREEK, CA 94596

WordStar and MailMerge are registered trademarks of MicroPro International, Inc.  
NewWord and Newstar are trademarks of Newstar Software, Inc.



# MS-DOS, CP/M-86 and RAM Drive For Your CP/M Computer



Now you can dramatically expand the software capabilities of your CP/M computer with CO-POWER-88 from SWP Microcomputer Products.

Introducing CO-POWER-88, the powerful 16-bit, 8088 co-processor that upgrades your Z-80, CP/M computer to run both MS-DOS and CP/M-86. What's more, MS-DOS on the CO-POWER-88 is format and data compatible with the IBM-PC.

Available in 2 RAM sizes, 128k and 256k, the CO-POWER-88 runs at a quick 5.33 MHz. It gets its power from your computer's power supply and uses a maximum of just 750 mils at +5 volts.

Installation is simple.

When you order your CO-POWER-88, you'll receive two circuit boards: the Z-80 adapter board and the main processor board. You'll also receive a complete owner's manual and easy-to-follow installation instructions.

When your package arrives at your door, the world of 16-bit processing is just minutes away.

CO-POWER-88 does not replace your Z-80, so you can still run CP/M.

Imagine the versatility, compatibility and power that CO-POWER-88 gives you, allowing for both CP/M and MS-DOS, IBM-PC compatibility processing.

# SWP

MICROCOMPUTER PRODUCTS, INC.

2500 E. Randol Mill Rd. • Suite 125 • Arlington, TX 76011

And, as an added feature, CO-POWER-88's RAM can be used as a high-speed simulated disk drive when processing under CP/M.

How IBM-PC compatible is the CO-POWER-88?

Most MS-DOS, IBM-PC software will run under the CO-POWER-88. To inquire about a specific program, call or write us.

Contact your local SWP dealer, or order direct by mail.

If you own a Kaypro, Morrow, Zorba, Actrix, Osborne, Bigboard, Xerox 820-II, or SWP ATR8000, then CO-POWER-88 is for you! Contact your local SWP dealer, or use the convenient mail order coupon below. Better yet, for fastest delivery, use your credit card and shop by phone.

**Credit Card Orders Save Time!**  
Call 817-469-1181 or 817-861-0421 And Order Now

Or Mail Coupon to: SWP, Dept. \_\_\_\_\_, 2500 E. Randol Mill Rd., Suite 125, Arlington, TX 76011

**Please ship the following:**

☐ 128k CO-POWER-88 with MS-DOS @ \$400.00 + \$10.00 shipping.

☐ 256k CO-POWER-88 with MS-DOS @ \$500.00 + \$10.00 shipping.

☐ CP/M-86 (16-Bit Disk Operating System) @ \$60.00 + \$5.00 shipping.

Configurations: (check one) 5 1/4" drive \_\_\_\_\_ or 8" drive \_\_\_\_\_

**Brand of Computer** \_\_\_\_\_

☐ I want to learn more about the CO-POWER-88. Enclosed is \$1.00, (no checks please) for more literature, including a comprehensive listing of MS-DOS and CP/M-86 software that runs on the CO-POWER-88.

**Method of payment:**

☐ Personal Check enclosed (must clear bank before shipping)

☐ Certified Check or Money Order enclosed.

☐ Charge the following credit card:

☐ Master Card ☐ Visa

Credit Card # \_\_\_\_\_ Exp. Date \_\_\_\_\_

Master Card Bank # \_\_\_\_\_

Subtotal: \_\_\_\_\_ + Shipping \_\_\_\_\_ + Sales Tax (Texas Residents add 5%) \_\_\_\_\_

= Total Enclosed: \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone (h) (\_\_\_\_) \_\_\_\_\_ (w) (\_\_\_\_) \_\_\_\_\_

Signature \_\_\_\_\_

© 1984, SWP Microcomputer Products, Inc.

Trademarks: CO-POWER-88 and ATR8000, SWP Microcomputer Products, Inc., IBM-PC, International Business Machines, Z-80, Zilog; MS-DOS, Microsoft, Inc.; CP/M and CP/M-86, Digital Research, Inc.; Kaypro, Kaypro Corp.

# The cottage computerist

High-tech writing—image vs. reality

by David Thompson

**W**riting about computers would seem to be a natural occupation for us cottage computerists. After all, isn't that the way many talented (but otherwise normal) people have managed to live where they want (away from cities) and still work in the high technology world?

This image of independent writers is not uncommon. And, in fact, a lucky few of us really do get to live that dream in small town America. Many more writers, however, live in suburban tracts, paying their weekly dues of 40 hours at a straight job before they can sit down at the keyboard.

Writing appears an easy job, one not requiring much capital outlay. But whenever something looks easy and cheap, it usually turns out that it doesn't pay very well (or else it isn't really so easy or cheap).

Assume the worst possible case and you'll be pretty close to reality. Writing usually doesn't pay well, it's not all that easy, and the investment can be substantial if you count your time along with the dollars. Plus, you might not even have the option of living where you please. You might (heaven forbid) be locked as tightly into the big city, big company trip as any lowly employee.

**What pays and what doesn't**  
Writing magazine articles on speculation doesn't pay. Sure, your writer's guild magazine and

your writer's market annual spend a lot of time with tips on how to get your article accepted by an editor. However, once the thing's been published, what do you get?

You get a lot of satisfaction (after all, you're a published author), you get some status at work (perhaps even a pay increase), and you get 50 cents per hour for your time (a high estimate).

If you're writing articles or columns assigned by a magazine editor, it's usually better but still not enough to feed a family. However, if you are writing for a corporation, things can be quite different.

Let's say that XYZ software company is selling a Pascal compiler that has a dynamite debugger. XYZ company contacts an editor (of a publication they advertise with) and arranges to supply the magazine with an article on using a debugger when writing Pascal programs.

XYZ company then commissions a writer to produce the article. XYZ company knows that editorial exposure for its product is worth far more than advertising exposure and it is already paying, say, \$5,000 to \$10,000 per page for ads. So, it may figure that a quality article is worth \$25,000 to \$50,000 in terms of company image and in direct sales.

Now you can see why XYZ company is willing to pay a few thousand to someone to whip out a three or four page treatise on debugging (using their debugger, of course). Naturally, when XYZ

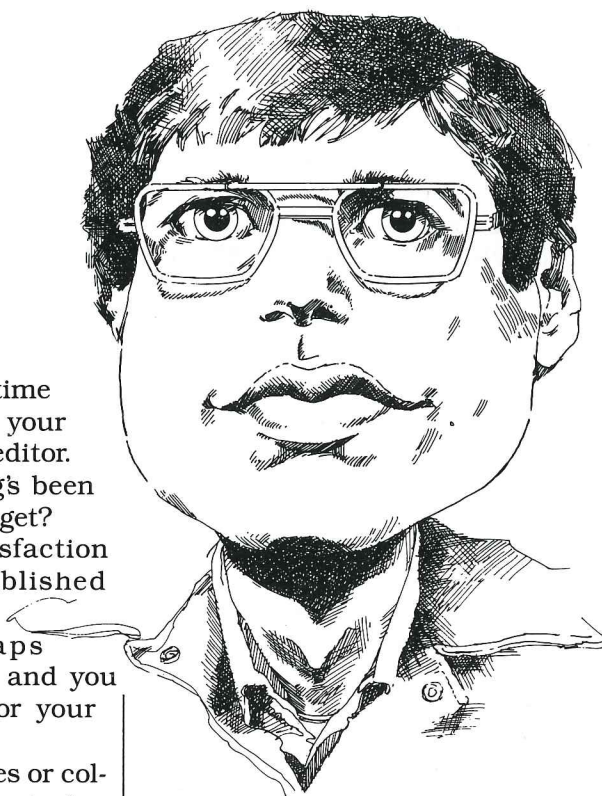


ILLUSTRATION BY JOYCE KITCHELL

goes looking for a writer, they look for someone who is already published regularly in their target publication. Suddenly, being a published author begins to translate into \$100 or more per hour of your time.

## Manuals

In the real world, manuals are bread and butter for many technically oriented writers. Writers don't usually choose to do manuals because this kind of work is often the most difficult and least inspiring. Every manual writer I've ever known considered his or her present condition a temporary "dues payment." However, this kind of writing can be interesting, and very rewarding financially.

Manuals are usually long-term projects (6 months to over a year) done on company premises. You will usually get a contact person, a desk, and general run of the area. Because of your close involvement with engineering,

*(continued)*

marketing, and other groups within the company, you can begin to feel quite at home.

Freelancing manuals pays anywhere from \$15 to \$50 per hour. That's not bad, especially considering the length of the project. But, one of the best things you can have in your portfolio when going after a manual writing job is a fist full of published articles. Back to square one.

### **So you're going to try it**

Deciding to do an article is the easy part. It turns out that the act of sitting down and putting something on the screen (*who uses paper any more?*), is quite another thing. In fact, it's even harder when an editor calls and asks "Where's the piece?!" (Talk about a bad case of "Blank Paper Syndrome," that will cause it

every time.)

There is something about a blank piece of paper or a blank screen that freaks just about everyone. First of all, it's late (goes without saying) and you are staring at the starkest, blankest white piece of paper (or emptiest screen) ever known.

You try your darndest to organize something in your mind, anything. "Let's see, if I start with the story about the 25-pin ROM that had a leg up on the competition, and then follow with an instruction by instruction look at Z80 opcodes," you mutter to yourself. But nothing really workable seems to come to mind.

### **Don't stop to think**

When I sit down to write an article, I start out in freeform mode. By this, I mean that I take the

ideas I have and put them on the screen.

They are just a word or two each, no sentences (too much work), nothing to tie them together. They are just enough to jog my memory. That way I don't have to remember them while I do more freeform thinking. All the ideas that pop into my mind get entered, no judgements, bam they are there, strung down the side of the screen with blank lines between them. Sometimes only a few phrases come to mind, other times I can't enter them fast enough.

### **Coming back later**

Once you have dumped your supply of ideas onto the screen, save the file and turn off the system. Go to Tahiti, visit your mother-in-law, anything, but don't beat your

## Farmer Brown isn't the only one who can't catch a pig!



Winchester and Floppy disks can't either. ... the PIGGY-BANK is just too fast for them all. Just install the PIGGY-BANK, load the software, and hang-on for a high-speed run for your money! As a semi-disk (ramdisk) the PIGGY-BANK runs 20 times faster, so you can load programs like Wordstar or Perfectwriter in less than one second. Formatting or saving files are done in a blink of the

eye! Or try the ultimate adventure—run CP/M+ (3.0) and use the PIGGY-BANK as bank-switched memory. The 384K bytes, silent operation, and reduced wear and tear on diskettes and drives means saving time and money. You can catch up with the PIG at your Kaypro® dealer or contact us directly.



E-SYSTEMS, BERKELEY 2308 FOURTH STREET, BERKELEY, CA. 94710 (415) 486-0686

head against the problem right now. This way your head can mull a bit.

After a couple of days, you should be getting some ideas. Don't count on your memory; sit down at the system and get them entered. While you are at it, glance through your previous ideas and see if one doesn't provoke a paragraph or two. Once you have run out of ideas and filler, save what you've done and leave it alone again.

Go off and do something else and don't worry about the article. Your mind knows that the article isn't finished so it will keep working all by itself, just be ready to record new ideas when they happen.

### **Cleaning it up**

After a few more days, you should have your article pretty well entered. Now it's time to look at the basic organization and see how words, sentences, and paragraphs work together. Is there a flow? Are there any jarring changes in tense (past, present, future) or person (me, you, they)? Is all the information correct? (Are the names spelled correctly?) Have you left out anything important?

This part may sound hard, and it is. But you see, most people are in the "enter/organize/cleanup" mode when they sit down to that blank screen. No wonder they are overwhelmed.

I mean, if you overload your mind with picky details up front, it'll never get a chance to come up with ideas. Do the cleaning up when you have something to clean up—it's easier that way.

### **A few more tips**

It's always easiest to write about something that you're really excited about. Did you just figure out a new circuit to add to your computer? Did you just write a

new utility to format text files? Did you find a great new data base package? Any of these make ideal subjects for articles.

One of the easiest ways to develop a readable writing style is to pretend you're talking to a friend. You want to be informal but concise. You will not need to show off your great vocabulary because this person is already your friend and doesn't need to be impressed. You should, however, carefully explain important terms so your friend can follow what you are saying.

Feel free to talk directly to your reader (your friend, remember) by using "you" and "I." Include short anecdotes if they contribute and don't be afraid that people won't be interested in your personal experiences. They are. Just be sure these extra goodies don't distract from the subject.

### **Finally**

There is one more thing about writing that I haven't covered so far but is, perhaps, the most important.

Writing is a communication: first with yourself, then with the paper (or other medium), and finally with another person. Like any other piece of art, a piece of writing has its own form and its own evolution.

Just as some artists work in oils while others choose to generate electronic images, some writers work best staring at a computer screen in a windowless room. Others do their best work with pad and pencil while sitting amid the wildflowers high on a wind blown ridge.

Either way, the written word (no matter what the subject) is one of the most beautiful and powerful mediums around. □

## **PROTECT YOUR SYSTEM**

Easy to install system security for your KAYPRO® 10 with  
BYTE/LOCK. Power on - - -

THIS MACHINE BELONGS TO:  
YOUR NAME  
AND IS NOT FOR RESALE

TO GAIN ACCESS YOU MUST HAVE A VALID PASSWORD  
YOU WILL HAVE THREE TRIES TO ENTER IT CORRECTLY

PLEASE ENTER YOUR PASSWORD

Three incorrect attempts will invoke the SAFETY PROGRAM.  
Correct response gives you an AO> prompt.

Send your name or company name, your choice of password and \$24.95 for your BYTE/LOCK security system. Within 30 days you will receive your BYTE/LOCK program on a 5¼ in. diskette. Instructions included.

# **MICRO LOCK**

P.O. BOX B, KIHAI, HI. 96753, (808) 879-0951

## SHOP-BY-MAIL CENTRAL KAYPRO SOFTWARE

Product Description List Central

### Software

#### ATI TRAINING DISKS

CP/M	\$ 75.00	\$ 65.00
MBasic	\$ 75.00	\$ 65.00
Multiplan	\$ 75.00	\$ 65.00
Wordstar	\$ 75.00	\$ 65.00

#### BLUE CHIP SOFTWARE

Millionaire	\$ 59.95	\$ 49.95
-------------	----------	----------

#### COMPUTRONICS

VersaBusiness Series		
VersaLedger II	\$149.95	\$115.00
VersaReceivables	99.95	79.50
VersaPayables	99.95	79.50
VersaPayroll	99.95	79.50
VersaInventory	99.95	79.50

#### CONTINENTAL SOFTWARE

Home Accountant Plus	\$ 99.95	\$ 79.95
----------------------	----------	----------

#### FYI, INC.

SuperFile	\$195.00	\$137.00
-----------	----------	----------

#### MICROSOLUTIONS

Uniform Kaypro II	\$ 69.95	\$ 49.95
Reads 25 machine formats		
Uniform Kaypro IV & 10	\$ 69.95	\$ 49.95
Reads 40 machine formats		

#### MYCROFT LABS

Mite Communications	\$150.00	\$ 99.00
---------------------	----------	----------

#### PLU PERFECT SYSTEMS

Plu Perfect Writer CP/M 2.2E	\$ 32.00	\$ 29.00
Plu Perfect Keyboard	\$ 32.00	\$ 29.00

#### QUIC-N-EASY PROD

Q-Pro 4	\$395.00	\$267.00
---------	----------	----------

#### SAN FRANCISCO COMP

Power!	\$169.00	\$125.00
--------	----------	----------

#### STAR SYSTEMS

The Accounting Partner	\$395.00	\$285.00
------------------------	----------	----------

### Hardware

#### ADVENT PRODUCTS

Anti-Glare Screen	\$ 24.95	\$ 21.95
5 Mhz Speed-Up Turbo Board	\$ 99.95	\$ 79.95
External Monitor Adapter	\$ 69.95	\$ 59.95
ProGraphics	\$299.95	\$249.95

#### COVERMAN

Cordura Kaypro Travel Case	\$ 79.95	\$ 59.95
----------------------------	----------	----------

#### DYSAN DISKETTES

Dysan SSDD Kaypro II	\$ 29.95	
Dysan DSDD Kaypro IV & 10	\$ 39.95	

#### MANNESMANN TALLY

Spirit Printer	\$399.00	\$349.00
----------------	----------	----------

#### PANAMAX

PowerMax	\$459.00	\$379.00
200 Watt Battery Back-up		

### Bookware

#### PEOPLETALK ASSOC

Perfect Manual for Kaypro II	\$ 21.95	\$ 19.95
Perfect Manual for Kaypro IV	\$ 21.95	\$ 19.95
Wordstar and Friends	\$ 21.95	\$ 19.95

#### RESTON PUBLISHING

Compleat Kaypro II, IV & 10	\$ 16.95	\$ 15.95
CP/M for the Kaypro	\$ 16.95	\$ 15.95

Free yellow Hi-Liter pen sent with every book order.

Prices, specifications, and offers subject to change without notice.

## CABLES

Top quality, individually tested 36 pin Centronics-type standard parallel cables for all model Kaypros. These are made to work hard and long.

5 ft cables	\$19.95 each
10 ft cables	\$24.95 each

Top quality, individually tested ribbon modem RS-232C cables designed with reinforced clamps for a sure continuous connection and made especially for your Kaypro. These work the first time, every time.

2 ft cables	\$15.95 each
5 ft cables	\$19.95 each

Satisfaction Guaranteed or Money Back  
Order with Confidence

## Do You Wish Writing Was Easier?

If you need to write, or want to write clearly, your Kaypro and the software program *Punctuation and Style* can help you get there faster. It improves, clarifies, and enriches your writing by identifying sentences with misused, redundant, faulty, cliched, or erroneous phrases, and shows you how to improve them. It helps you rewrite and check your work by quickly marking and annotating your files for easy correction. In addition to computer-fast identification of awkward, muddy, pompous, and wordy sentence structure, it also finds missing or improper punctuation, unbalanced quotes, wrong abbreviations, faulty capitalizations, and much more. *Punctuation and Style* actually improves your writing by mercilessly pointing out grammatical errors. After a few weeks with Oasis System's *Punctuation and Style* your writing is bound to become more dynamic, expressive, and honest. In time, you'll stop worrying about grammar and work on projecting ideas instead. After all, that's what writing is about.

*Punctuation and Style* makes writing and rewriting much easier. The list price of *Punctuation and Style* is \$125. Central's price is \$99. Experience the power of this valuable "Punctuation Checking and Writing Improvement Software" yourself. Order today to get this program fast.

*Punctuation and Style* works on files created with Wordstar or Perfect Writer. It comes with an easy to use, clearly written manual and is packaged in an attractive binder. Join thousands who now write with more confidence, faster, and better.

## SmartKey II™ 3,750 Strokes per Key!

SmartKey II lets you redefine keys at any time, even while your other software — such as Perfect Writer or Calc, Wordstar, dBase II, etc. is in operation. Once definitions are entered, they may be stored for future use. Save paragraphs or entire pages of text and recall them with the stroke of a single key. Give any upper or lower case key on your Kaypro as many as 3,750 unique characters of definition. Call up your specially designed "smart keys" whenever and wherever you want and inject them into your work. This is a must-have computer program for all Kaypro users including writers, lawyers, doctors, researchers, secretaries, programmers, and businessmen.

A super companion to SmartKey II is SmartPrint II. Now with single-stroke commands, SmartPrint II can make your dot matrix printer do dozens of tricks. Italics, greek characters, graphic symbols, boldface, underlining, extended typefaces, accent marks, and so much more, are all easy to do. Great for letter quality daisy wheel printers too. SmartKey II and SmartPrint II are regularly \$129. SmartKey II alone is usually \$89. Now, for a limited time only Central's combination SmartKey II and SmartPrint II pack is just \$79. Order today.

Warning: SmartKey II makes lesser programs look dumb, dumb, dumb. SmartKey II is a fantastic tool.

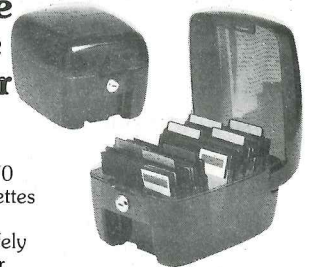
## 3M DISKETTES

3M Single Sided Double Density and Double-Sided Double Density soft-sectored diskettes are certified error-free, and work like a charm on Kaypro IIs, IVs, and 10s. Every 3M diskette is guaranteed to last over 3.5 million passes per track. This means if you rewrote or updated every track on a 3M diskette once per hour, you would have to continue this process for more than 200 years to equal the 3.5 million pass level. Heavy duty reinforced hub ring furthers the long service life of these diskettes. We guarantee trouble-free, lifetime performance of 3M disks or money-back.

Our quantity stocking of 3M diskettes and other guaranteed quality 3M products allows us to share with you our new shockingly low, low prices. Suggested list price of 3M SSDD diskettes is \$42; list price of 3M DSDD diskettes is \$60. There is no better diskette made for your Kaypro. Order today.

Box of 10 SS-DD-RH Kaypro II diskettes: **\$22.30**  
Box of 10 DS-DD-RH Kaypro IV diskettes: **\$31.00**  
Box of 10 DS-DD-RH Kaypro 10 diskettes: **\$31.00**  
3M Head Cleaning Kits for Kaypros: **\$21.95**

## Lockable Diskette Defender



This handsome, lockable diskette defender holds 70 Kaypro-size diskettes in a sturdy tray. Now you can safely desk top file your programs and data diskettes for quick and easy reference. This streamlined case is constructed of high impact, smoke-tinted acrylic. Flip-up lid keeps out dust, debris, and moisture, and locks securely to guard your important work. Comes with 7 dividers with index tabs for easy filing and to keep floppies upright to prevent bending, warping, and scratching. Molded recessed handles for worry-free carrying. Tough and secure metal lock never comes in contact with diskettes because it is enclosed in a special plastic housing. This is a super value at the new list price of \$27.95. Some sell these for as much as \$39. Our low price is \$23.95 for one, or \$21.95 each if you buy 2 or more. Keep prying eyes and sticky fingers away from your data. Guaranteed. Order today.

### CENTRAL COMPUTER PRODUCTS

860 Central Avenue, Dept. A  
Fillmore, California 93015  
(805) 524-4189

Dear Central,

Please send me the items listed below. I want fast, friendly service. Don't forget to include my free 12 foot extension cord. I understand there is no charge for this cord if I purchase 2 or more items from these pages. My check, money order, or card no. is enclosed. Thanks.

Description	Price
Sub Total	
CA Resident 6% Tax	
<b>FIRM MONEY BACK GUARANTEE</b>	
Postage & Handling	\$ 3.00
<b>ORDER WITH CONFIDENCE</b>	Total \$
<input type="checkbox"/> Navy blue <input type="checkbox"/> Royal blue <input type="checkbox"/> Send free catalog <input type="checkbox"/> Send free 12 foot cord <input type="checkbox"/> Check enclosed <input type="checkbox"/> Money Order enclosed	
<input type="checkbox"/> Visa/Mastercard #	
Exp. Date	Sig.
Name	
Address	
City	State      Zip
Phone Orders Accepted.	
To order by mail use coupon, letter, or photo copy. Thank you.	

# FREE

WITH  
YOUR  
ORDER FOR  
ANY 2 OR MORE  
ITEMS ON THESE  
PAGES GET A —

## Giant 12 Foot Coiled Extension Cord for Your Kaypro keyboard

Send for your free cord today.  
Enjoy that detachable keyboard.

Regarding this coiled retractable cord: Don't be fooled by cheap imitations. This cord has been specially manufactured to match the unique electrical requirements of the Kaypro computer and meets demanding Kaypro-like specs. It is guaranteed to work with every model Kaypro II, IV, and 10. Don't settle for less from copycat advertisers. Other cords will fail and may hurt your system. Order your free cord today.

This free offer applies to any 2 or more separate items. For example, a Kaypro Quality Cover and one template equals 2 items; 2 templates equal 2 items, but a single box of diskettes is one item. One free cord per customer. We must reserve the right to end this offer. Don't be disappointed, order today. 12 foot cords sold separately at \$12.95 per cord.

**CENTRAL COMPUTER PRODUCTS**  
860 Central Avenue • Fillmore, CA 93015  
(805) 524-4189

© 1984 Central Computer Products

## Enemies of Kaypro ... Spikes, Surges, and Noise!

The Kaypro has enemies. But now you can protect it from the mish mash of electrical currents that race through your home or business. Powerful up-surges of current can actually blow out your machine. Less powerful, barely noticeable spikes, surges, and noise can silently degrade your system in time, ruining chips, destroying data, and causing expensive service calls.

The Kaypro manual states, "Line filtering will protect your Kaypro...from power surges or other undesirable occurrences from the power source." Surge protection will help your Kaypro provide years of trouble-free service. Also, if you plan to use your Kaypro to access information by modem, you must have a reliable high frequency noise (EMI/RFI) suppressor to insure against data loss and scrambling.

There are many "toy" surge suppressors on the market. They are smartly colored, but beware. The performance difference is amazing. The best surge and noise suppressors on the market are made by Panamax. Our "Panamax Challenge Certificate" tells all. It is a startling comparison of Panamax quality with 11 other well-known brands. One aspect of this revealing report tells how Panamax responds to and cuts surges in 5 or less pico seconds, while most other suppressors respond at a comparably slow 5 to 50 nanoseconds!

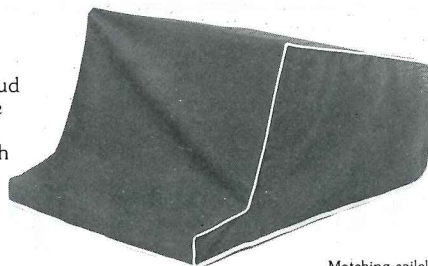
Check our regular low prices. Try the Panamax of your choice for 15 days. Receive the "Panamax Challenge Certificate" with your purchase. If not completely satisfied with your purchase, return for immediate full refund. Your Kaypro deserves Panamax protection, the best there is. Order today.

## Introducing A Classic Form Fitting Kaypro Cover

At last, the classic Kaypro dust cover you'll be proud to own and use. This first rate computer cover is made from a premium, lint free, static free, washable, free breathing, and fade resistant sailcloth. It comes in a rich looking Navy blue or Royal blue, and has a smart contrasting silver gray piping and trim that adds a superior finished look. Made to form fit and protect a Kaypro that is set up and ready to use.

This remarkable dust cover makes you feel good and will keep your computer dust free and looking brand new for years to come. For a limited time only, your price for this factory direct, custom made, sailcloth Quality Cover is \$16.95. When ordering remember to indicate color preference. This special low price is subject to change. You must be completely satisfied with your purchase of this cover or we will refund your money immediately. Order today.

**Richly tailored inside and out.** Look inside any of our Quality Covers; see the ultimate finishing; we use machines that sew with 3 needles so that no edge will ever unravel or shed lint. We stress perfection because you deserve the best. Compare for long-lasting satisfaction.



Matching sailcloth  
printer covers are \$14.95 each.  
Complete list sent with order.

- Quality tailoring
- Easy care fabrics
- Attractive colors
- Professional appeal

**FACTORY DIRECT**

**Kleertex®**

- \$18.95 for one
- \$35.00 for two
- \$49.95 for three
- Why pay more?



## Learn Perfect Commands Super, Super Fast!

Time-saving Kleertex templates are made from a durable, non-glare plastic, and can be put on and lifted off the keyboard instantly. The text is easy to read. One template lists all the commands for Perfect Writer and Perfect Filer; another has all the Perfect Calc commands.

No more going back to the book to get a two or three keystroke command or format. All Perfect Software commands and formats are conveniently listed in alphabetical order on the template, within the line of sight, at your fingertips. These templates will help you learn Perfect commands super fast, so you can make better use of your powerful software. You'll wonder how you ever got along without these useful tools. Central's special price for one template is \$18.95. If you want both, send \$35 and save. Please specify: Perfect Writer/Filer and/or Perfect Calc template(s) when you order. Kaypro-fitting Kleertex templates are also available for dBase II and Wordstar/Mailmerge commands. Each is only \$18.95. You may combine purchase of any of these four templates for super savings. Complete satisfaction is guaranteed or money-back. Makes learning software a breeze. Great value. Order today.

### PANAMAX SURGE SUPPRESSORS

Description	List	Price
2 outlets, D	\$89.00	\$69.95
2 outlets, D NF	\$109.00	\$79.95
4 outlets, LC S	\$107.00	\$89.95
4 outlets, LC S NF	\$127.00	\$110.95
6 outlets, LC S RB	\$124.00	\$109.95
6 outlets, LC S RB NF	\$144.00	\$124.95

D: Connects direct to grounded wall jack.  
LC: Includes 5 foot long heavy duty line cord.  
S: Includes illuminated on/off switch.  
NF: Includes EMI/RFI noise filter.  
RB: Includes reset button.  
All units include the added security of a 4 amp fuse.  
Unique Panamax EMI/RFI noise filters provide protection in common and transverse mode. Essential for modern communications, multi-user stations, etc.  
Panamax units are factory guaranteed for 24 months.



Photo:  
Panamax  
6 outlets LC S NF.

"Power line-associated problems are estimated to cause nearly 70 to 90 percent of the malfunctions in the IBM PC."

"Overvoltage can be fatal to both data and hardware alike."

P.C. Magazine, March 1983

## PRICE PROTECTION POLICY

We have a super price protection policy: Central will match or beat any price you see listed in this publication on products also advertised in our ads. Buy from us. If you see a lower price in another ad in this publication, tell us when you order, or within 30 days of your order. We'll refund the difference, or match, or beat that price. That's a promise. Try our friendly service today for affordable, price-protected, lightning-fast deliveries.

### ● Free Catalog ●

Please send for our professional free catalog showing hundreds of Kaypro compatible products. Our catalog pricing policy is reflected on these pages. This policy is our motto: Fair Prices, Quality Products, Service, and Firm Guarantees.

Call or write Central today for a big free catalog. Thank you.

# Ms. Perceptions

History reminds us there  
are no guarantees.

by Terian Tyre

**A**ssumptions are sneaky things. They operate in the background, quietly, often influencing events more than any other factor. Unnoticed, they are extremely powerful and rarely challenged. One unusually seductive assumption currently enjoying a renaissance is the notion that new technology is inherently capable of controlling the context in which it's used.

With respect to women, the rosy scene being painted (by well-meaning folks) is that the proliferation of computers will sweep in a new era of social equality.

The reasoning seems straightforward enough. Computers are communication and problem-solving tools, perfectly logical and without bias. It's then concluded that computers will bring about thinking which is more objective and logical, benefiting everyone equally.

Hah.

World history is full of stories about technological innovations which revolutionized the workplace. How many sparked concurrent social reforms? None. In fact, a decade of scrutiny by historians has led to recent findings stating mechanical improvements have consistently been used to reinforce the status quo. Alas, women haven't progressed very far under this state of affairs.

The assumption being used by the picture painters overlooks one fact. Technology is only a

tool. After all, some people use a big stick as a baseball bat and some use it as a weapon.

To illustrate this distinction, let's look at two inventions which are commonly believed to have dramatically improved women's lives—the sewing machine and the typewriter.

## **The magic needle**

The sewing machine was supposed to help liberate women from needlework drudgery. Improvements in the 1890's made the industrial sewing machine both lighter and affordable, and therefore suitable for home use. Interestingly, contracts for garment piece work with a specific clothing manufacturer were often included with a machine's purchase.

That proved a popular angle. Women worked out of their homes, paid for the machines and made some extra money besides. To the sewing machine makers, it sold their product. To the garment manufacturers, it was a cheap form of labor. To women it was another good-looking deal which turned sour.

Consider the employment scene at that time. Jobs were strictly segregated; men's and women's tasks intersected but never mingled. Single women who worked commonly went into domestic service or the textile mills to help support their families until they married. Married women who worked did so out of their homes. Naturally most home workers were women.

Plainly, the picture of a lone



ILLUSTRATION BY JOYCE KITCHELL

woman sewing serenely for "pin money" wasn't accurate even then. Women worked because they needed the money. Piece work turned some households into small-scale sweatshops. Low pay rates meant many long hours and everyone, including children, had to help get the sewing done.

The invention of the sewing machine did improve the speed and efficiency of needlework. It did not improve the employment situation of women however, or free them from much drudgery. It didn't change the traditional patterns of work. Instead, the technology was incorporated into the pattern. Women still worked in a separate sphere than men, with lower pay, and no new groups of women were enticed into the labor market.

## **Typewriters and the office**

The sewing machine is nothing compared to the impact of the typewriter. That noisy machine is credited with adding to women's self-esteem as well as

their bank accounts from its effects on the modern office. But did this evolution come about because the typewriter caused the general populace to reconsider their ideas on the abilities of women? Did it really change basic attitudes? Not exactly—a brief history illustrates why.

Early in the 1800's, paperwork was the tedious part of an apprenticeship in a business office. Of course, nearly all owners and apprentices were men. Later, as the volume of paperwork increased, clerical tasks were separated. Office tasks became compartmentalized and men moved into sales, administration and marketing, leaving the clerical jobs open.

At first, paperwork was handled like garment piece work. Copying was done at home and paid by the word. True to the pattern of home workers, widows and married women with children provided the necessary labor. An 1880 census showed only a very few women engaged in clerical work.

The debut of the typewriter dramatically reversed this picture. By 1910, the census showed females held 83% of all clerical jobs. Mechanizing document production created a new sphere of employment which was well-suited for women of the time. Full-time clerical work inside an office was clean and respected and it drew upon the ranks of the educated middle-class, attracting women who hadn't worked for wages before.

Certainly, the typewriter was instrumental in getting women out of the house and into the labor force. This was not, however, because popular opinion had fundamentally changed to believe it was desirable for women to work outside the home. What really changed was the organizational structure of the

business office.

### **Restructuring business**

Imagine a skyscraper with many floors. When business used apprenticeships, the owner occupied the top floor, his successor the floor below, and so on. Now, imagine that same skyscraper if the floors were suddenly separated and reshuffled into the shape of a pyramid.

This is precisely what happened to the office. Of course, owners remained on top, and the many apprentices took up the

moting or paying such workers.

Additionally, minor details like slender fingers and soft voices were deemed significant. Employers claimed women had superior manual dexterity and passive temperaments which made them ideal for clerical work. (The same claim was made by the garment industry.) Obviously, the perception of women didn't change with the advent of the typewriter. They were simply woven into the growing clerical role.

This isn't to say that typewrit-

## *Piece work turned some households into small-scale sweatshops.*

mid-level floors, but that still left a relatively large base to fill. Typing, filing, dictation, and shorthand made up the bottom of the pyramid.

Once the total picture is revealed, the surge of women into the labor force isn't surprising. There was a vacuum to fill. Women didn't replace men in those jobs; those particular jobs didn't exist before.

It's evident that enlightened attitudes were not a major factor in women's new career alternative. Economic pressures far outweighed any attitude change. Clerical work had to be done, yet it didn't offer much pay. Men were able to bypass those jobs for ones higher in the structure; women could not.

Even as women's labor choices increased, their horizons did not. The new jobs held little chance for promotion in pay or rank and were still segregated from men. This was largely because the jobs were filled by single women, ages 18-25, educated, and waiting for Mr. Right. There was no need for employers to worry about pro-

ers and sewing machines didn't have many benefits for women. They did. What they didn't do is fundamentally improve women's position in society.

### **Now and later**

Societal circumstances are now much different. Women have since entered many former strongholds of male employment. More married women are working and women in general are staying longer in the labor force. There's even been a noticeable trend of women delaying marriage and children until after they've secured careers. It appears, therefore, that most of the misbeliefs about women in the work force have been laid to rest.

However, appearances (like assumptions) are deceptive. There are still plenty of "-ism's", including sexism, alive and kicking in the 1980s.

Granted, computer technology is more revolutionary in its nature than anything previous. It promises to change aspects of  
*(continued)*

Consider: you're the owner of a small business, needing comprehensive computer accounting to manage for growth. But you're wary of spending big dollars demanded by the heavy hitters now on the market.

**Relax. Salvation is at hand.**

Introducing: The Accounting Express, part of the Business Express Series from Robonics. It's a complete sophisticated accounting system at a price well in line with a modest budget.

The Accounting Express has everything the big boys have: General Ledger, Accounts Receivable and Payable, Inventory Management, Payroll...all the fancy stuff. Eight integrated menu-driven modules that handle accounting



**ROBONICS**  
Software for humans  
936 Hermosa Avenue  
Hermosa Beach, CA 90254  
(213) 316-7740

**Yes! I'm interested in the  
Accounting Express.**

- ☐ Please send more information.  
☐ Please send the demo. I enclose \$60.00.  
☐ Please send me the programs indicated.  
 I enclose a check for \$ \_\_\_\_\_  
 (California residents add 6.5% tax).  
 Foreign orders add \$10.00.

- |  |   |
|--|---|
| <input type="checkbox"/> General Ledger      | <input type="checkbox"/> Accounts Payable       |
| <input type="checkbox"/> Inventory Mgmt.     | <input type="checkbox"/> Purchase Order Journal |
| <input type="checkbox"/> Payroll             | <input type="checkbox"/> Order Entry Journal    |
| <input type="checkbox"/> Accounts Receivable | <input type="checkbox"/> Point of Purchase      |

Individual Modules: \$99.95 each

NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_  
 STATE \_\_\_\_\_  
 ZIP \_\_\_\_\_

complexities with ridiculous ease. That come with comprehensive documentation. In English. So you get your system up and running in a jiffy.

Difference is, the price. At \$99.95 a module, it's well within reason. A complete accounting system is less than \$800.00.

Try it out. For just \$60.00 you get a complete set of manuals and demo disks to see for yourself how good the system is. If you're sold, the \$60.00 goes towards your purchase. If not, return it for a full refund.

Try The Accounting Express today. Now at your dealer's or by mail.

Dealer inquiries invited.

**Sharpen  
Your Act!**



**ACCOUNTING EXPRESS**

Part of the business express series from Robonics

## Lawyers Accountants Professionals

You're all beset with the same problem. How to keep track of multiple billable hours, variable item charges, and complex scheduling without spending all the office hours at the task.

The solution: The Office Express — part of the Business Express series from Robonics. It's a sweet little software system that nimbly waltzes through all those tedious and time-consuming tasks.

With individual programs designed for your professional needs, it calculates client charges, accumulates supplier costs, totals and makes up statements, tracks payments, receivables, account status and more. Then provides a wide variety of reports for quick review.



**ROBONICS**  
Software for humans  
936 Hermosa Avenue  
Hermosa Beach, CA 90254  
(213) 316-7740

### YES! I'm interested in the Office Express.

- ☐ Please send me information
- ☐ Please send the demo for \$60.
- ☐ Please send me the Office Express. I enclose \$395.

(California residents add 6.5% tax).  
Foreign orders add \$10.00.

- ☐ Legal ☐ CPA ☐ Professional

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_  
STATE \_\_\_\_\_  
ZIP \_\_\_\_\_

# Get Organized!

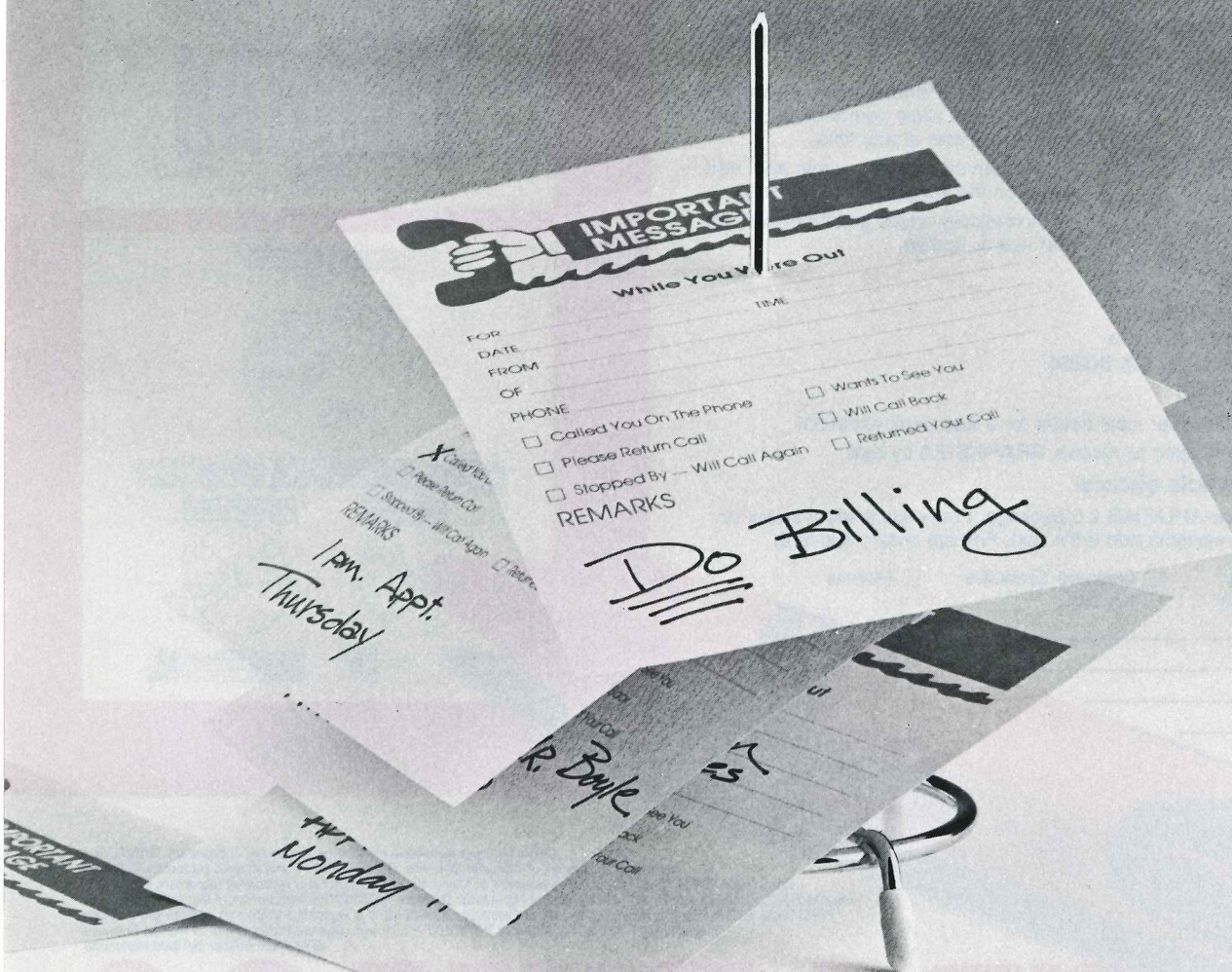
In addition, the Office Express scheduling function sorts and catalogs attorneys' dockets, client appointments, and other dated obligations, keeping you up to date at the touch of a key.

Best of all, The Office Express is easy to use. Clear, on-screen menus walk you through the procedures. An extensive manual in plain English helps anyone learn the system in minimum time.

Demo it! Send us \$60 and we'll send you the manual and a demo floppy. You can find out for yourself just what this program is capable of doing. If you like it, the \$60 goes toward the purchase. If not, return it for a full refund.

Try the Office Express today. At your local dealer's or by mail.

Dealer inquiries invited.



# OFFICE EXPRESS

Part of the business express series from Robonics

# Put your crayons away!

**You've grown up, isn't it time your company did too?**

Nobody said business was child's play. Add a professional, grown up look to your reports with GRAFIKS 2.0 by Robonics. Suddenly, it's a snap to create bar charts, line graphs, scatter plots and pie charts. You can even plot math functions with ease. And at only \$125, GRAFIKS 2.0 may just be the friendliest software package you'll ever own!

Labeling your graph is easy: move the cursor on the screen and type in characters or graphic symbols. GRAFIKS 2.0 reads data from SUPERCALC, dBASE II, MBASIC, CBASIC and WORDSTAR files. After you proof a graph on the screen, print it for posterity, quickly and easily.

## Amazing Flexibility!

- You can vary the size and location of pie charts, while selecting and exploding important slices.
- Bars can be clustered into logical groups, or spaced evenly across the page.
- Up to six different variables can be stacked onto every bar, each shaded in a different pattern.
- Plot mathematical functions by just typing in a formula.
- Plot separate points for a scatterplot, or automatically connect the points for a line drawing.
- Overlay an unlimited number of graphs to form composite charts.
- Very high resolution — 600 x 640 on an Epson 100, higher on some other printers.

## Professional, Down-to-Earth Business Features!

- Bar graphs, pie charts, line graphs, scatter plots, math functions, freeform labeling, superimposed graphs, autoscaling.
- Interfaces to SUPERCALC, dBASE II, MBASIC, CBASIC, WORDSTAR, LOGICALC, PERFECT CALC, PERFECT FILER, PERSONAL PEARL.
- Supports many different dot matrix printers, including Epson, NEC, C.Itoh, Okidata and IDS.
- Extremely friendly screen-oriented menus, which allow you to back up and correct mistakes at any time.
- Interactively create, view and edit charts on the screen before printing.
- Automatically saves graphs on disk for later use or update.



**ROBONICS**  
Software for humans  
936 Hermosa Avenue  
Hermosa Beach, CA 90254  
(213) 316-7740

Dealer inquiries invited. Contact your local dealer for a free demonstration!  
Or complete and return this coupon to receive GRAFIKS 2.0 by mail.

**Yes! I want to see the whole picture!**

Please send me the complete GRAFIKS 2.0 package. I have enclosed a check or money order for \$125 (CA residents add 6.5% tax). Foreign orders add \$10.

Osborne 1: ☐ Single density    ☐ Osborne Executive    ☐ Morrow  
☐ Double density    ☐ Kaypro

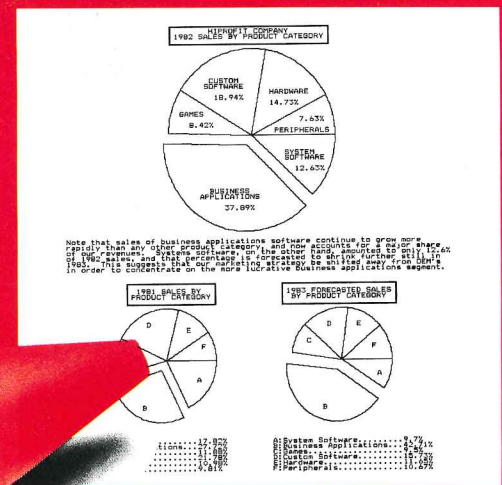
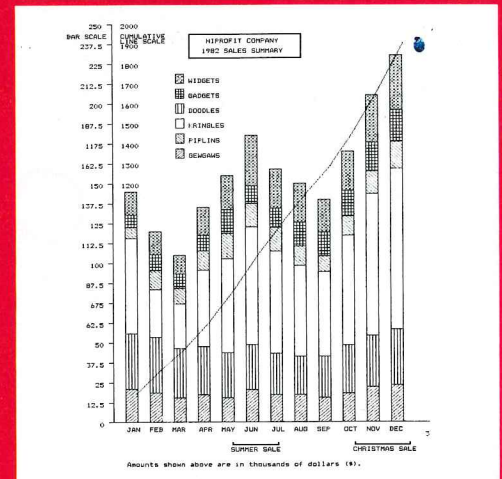
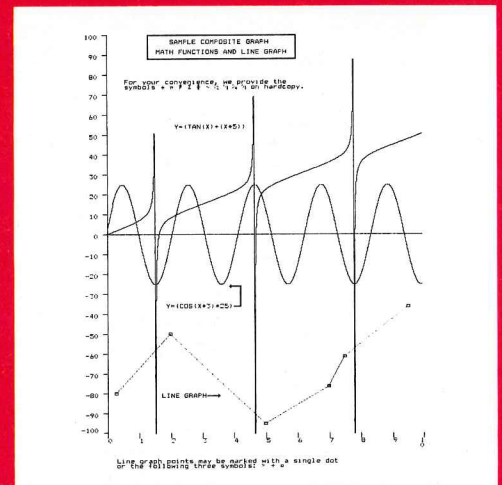
Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_



Osborne 1 is a trademark of Osborne Computer Corporation, CBASIC is a registered trademark of Compiler Systems, SUPERCALC is a registered trademark of Sorcim Corporation, MBASIC is a registered trademark of Microsoft, WORDSTAR is a registered trademark of MicroPro International Corporation, KAYPRO is a trademark of Non-Linear Systems, MORROW is a trademark of Morrow Designs, Inc. PERSONAL PEARL is a registered trademark of Pearlsort, LOGICALC is a registered trademark of Software Products International. PERFECT CALC and PERFECT FILER are registered trademarks of Perfect Software. GRAFIKS created by Todd Hammond.

# GRAFIKS 2.0

Part of the business express series from Robonics

## TYRE (continued)

everyday life and work not touched by other inventions. And it will certainly speed up not only change, but the rate at which change occurs. Still change doesn't necessarily mean improvement, especially in regards to women.

Some things are easy to predict. The ordinary telephone will soon offer instantaneous banking, shopping, and information retrieval at the public level. This should benefit most women by simply giving them more time. It's usually the woman (working or not) of the household who has her days interrupted by running errands.

Other possibilities aren't so

education. The real enemy is that last factor.

If you define mental laziness as the unwillingness to think, you can see why it's such a powerful force. Millions upon millions practice it religiously. Yet, in choosing not to think, not to participate in decisions, they have made their choice. They have decided to allow *others* to make their choice for them. Historically this has not been the wisest path for women.

Personally, I find something deeply disturbing about no-choice. It seems cowardly to duck one's responsibilities. And it doesn't bode well for a society if its members aren't willing to

## *Modems might resurrect clerical piece work done at home.*

easy to foresee or so pleasant to imagine. Will office careers and environments improve or degrade for women? It's possible that modems might resurrect clerical piece work done at home, with its attendant low wages. What would happen to women's primary job pool then?

### Conclusion

Perhaps it is optimism which leads us to believe that an improvement in technology causes a similar effect on people's thinking. Yet changes in attitude occur with considerably less ease than work patterns. I think there's more to the opinion. If people assume that computers will automatically make everything "better," then humans are relieved from that job.

I see this view as part wishful thinking, part fear, and lots of laziness. The first and second elements can be reduced through

exert the effort it takes to analyze the consequences of their decisions.

With all the hype about computers, it's easy to forget they are only sophisticated tools and will be manipulated as their operators desire. Assuming that just because the silicon chip starts out unbiased, it ends up working that way in the field, is more than naive—it's dangerous.

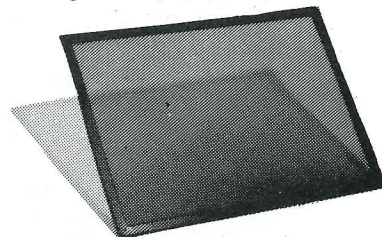
George Santayana summed it up well: "Those who cannot remember the past are condemned to repeat it." Women cannot afford to let history repeat itself this time. □

## NO REFLECTIONS ON YOU!

with the  
**SDC ANTIGLARE SCREEN**

Look at the face of your CRT. Its smooth surface reflects light like a mirror. Room lights, windows, the keyboard, even your hands, clothing and jewelry may be visible in it. Prolonged exposure to these distracting reflections causes eyestrain and unnecessary fatigue.

The **ANTIGLARE SCREEN** from Screen Data Corporation has been judged by an independent insurance company study to be the best solution tested to eliminate glare. Factors considered were user productivity, reduction of fatigue, ease of cleaning, durability, adaptability and cost.



The **ANTIGLARE SCREEN** is not glass or plexiglass but a finely woven mesh of tough synthetic material. The mesh passes text and graphics information from the CRT through to the eyes while stopping light from other sources from reflecting back to you. At the same time, the appearance of the display is enhanced because characters appear against a dark rather than a light background.

The **ANTIGLARE SCREEN** for the Kaypro is sized to fit within the black bezel in front of the CRT. It is held in place by small strips of Velcro, which allow it to be removed easily. The mounting of the SCREEN will not interfere with the keyboard when the unit is closed up for storage or transportation.

The **ANTIGLARE SCREEN** is only 34.95 postpaid. They are in stock for next day shipment. Try it for 30 days. You must be completely satisfied or your money will be refunded.

**NEW**  **Power screen™**  
WITH SDC ANTIGLARE

The static field in front of the tube causes dust, smoke and pollen particles to move about more freely and increase eyestrain, irritability and fatigue. The new conductive **POWER SCREEN** completely discharges this static field. A metal strap connects it to chassis ground.

The **POWER SCREEN** is just 49.95 with the same 30 day satisfaction guarantee.

### ORDER LINE

MC VISA COD

**800-531-5273**

(In Texas)

**512-250-8757**

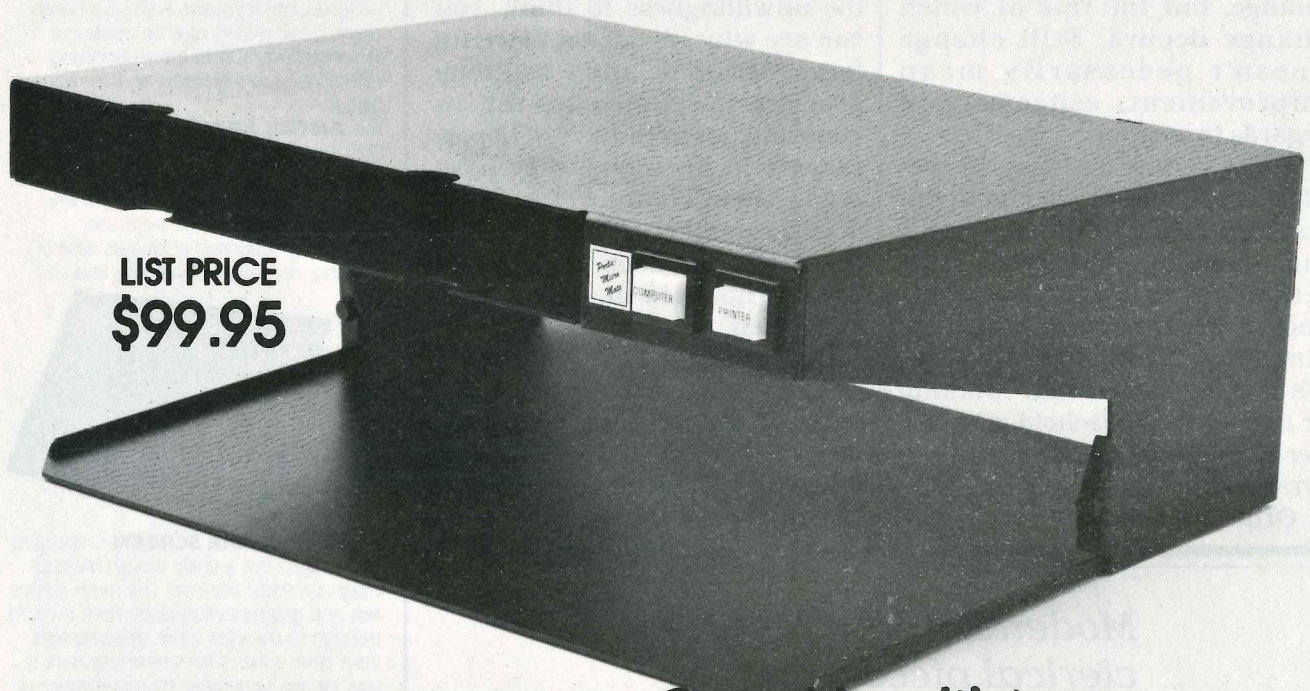
Dealer Inquiries Invited



**SCREEN DATA CORPORATION**  
DEPT. CSC  
240 CEDAR KNOLL ROAD  
CEDAR KNOLLS, NJ 07927

# Porta-Micro Mate

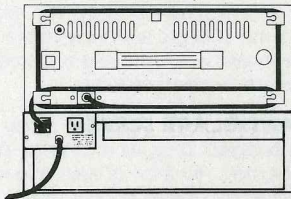
## It's **KAYPRO** Compatible



LIST PRICE  
**\$99.95**

**Every KAYPRO calls the Porta-Micro Mate Home!!**

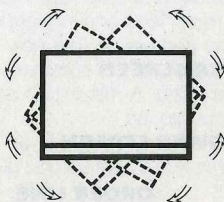
### **We've Added Surge Protection**



Never again will you fear the on/off power surges your computer experiences. With the new transient surge protection circuit, power glitches that cause disk data loss are eliminated. The Porta-Micro Mate still features lighted front panel power switches for computer and printer, as well as rear mounted individually switched sockets (no more contortions to reach hidden controls). It still has convenient storage space for your most often used disks.



### **New Optional Swivel Base & Added Stability**



The Porta-Micro Mate now has an optional swivel base model that sells for \$129.95. You don't have to move your system into the middle of the desk anymore. The swivel base provides total flexibility for any position. You can't see it, but we've beefed up the side panels to provide greater stability (Future portable computers like the KayPro 10 will be heavier since they have hard disk drives built-in).



**SOS**  
COMPUTERS



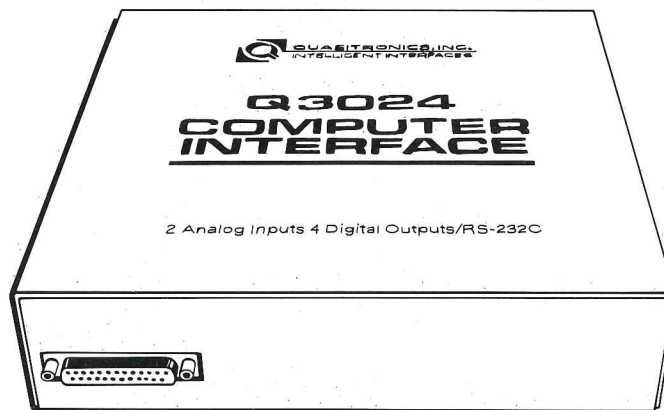
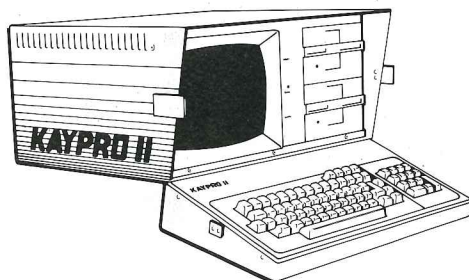
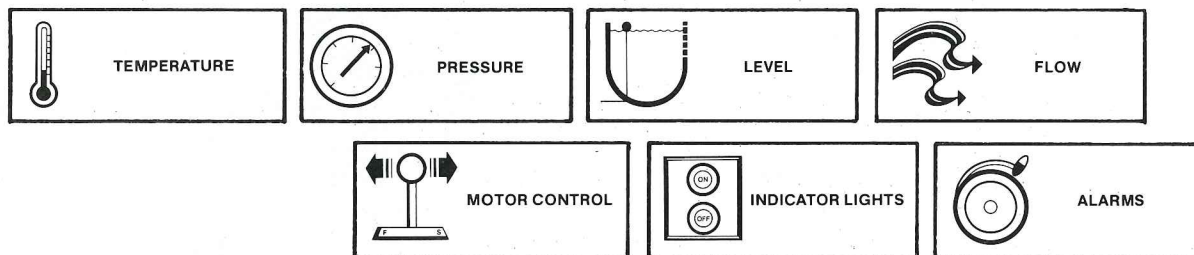
**At Your Local Dealer or Call Direct**  
Ask About Our Custom Matching Silver Nylon Dust Cover

**Specifications:** Width: 18" Depth: 13" Height: 7" front, 6" back Electrical: 125 V, 60 Hz, 8 amp.

**DEALER INQUIRIES INVITED**

362 So. LaBrea Ave. • Los Angeles, CA 90036 • (213) 857-0371

# Make your KAYPRO Grow... with the Q-3024 Interface from Quasitronics



For less than \$500\* you can add this proven interface unit and expand your KAYPRO's capabilities. Now you can use it for data collection and to control and actuate alarms, motors, pumps, heaters, laboratory apparatus and a host of other equipment. Hundreds of these quality interfaces have been in use for over a year with documented results.

## Take a good close look at this combination of performance benefits.

- Easy to connect to any computer with an RS232 serial port.
- Can be programmed through KAYPRO in BASIC.
- Contains a Z-80 micro.
- Can store information on discs to permit long-term data logging (or it can print out).
- Provides 2 high resolution analog inputs; 4 digital outputs.
- Can rescale information into engineering units for your own programming.
- Can control up to 4 devices such as alarms and actuators.

- Sample software examples included on disc.
- Compact—only 8 $\frac{5}{8}$ " x 8 $\frac{5}{8}$ " x 2".

## And there's more!

Quasitronics has specialized in interfaces for over a decade. The Q-3024 is just the first in a new and complete line of state-of-the-art interfaces. It's ready now for immediate shipment from stock.

We'll be adding other interfaces soon. If you'd like to learn more about Quasitronics, the Q-3024, and our expanding line of interfaces, call Chuck Jones, collect, or write to the address below. Dealer inquiries are most welcome.

\*List price \$495.00 each (plus shipping). Quantity discounts available.



211 Vandale Drive, Houston, PA 15342 • Telephone 1-800/245-4192 Telex 81-2550

# Up and running

Introducing a new column  
by a noted author.

by David Gerrold

Unlike my friend and colleague, Jerry Pournelle, I don't believe in naming my computers. The machine is simply "the K-10" and it sits politely on the same stand that used to hold my ADDS Viewpoint terminal. It doesn't take up a whole lot more room, either. Occasionally, however, someone will suggest that my computer should be named HARLIE—after the machine in my (unfortunately now out of print) novel, *When Harlie Was One*. If I'm feeling especially energetic I usually greet this suggestion with a yawn. If pressed for a reason I will mumble something to the effect that only the emotionally insecure insist on anthropomorphizing their machines. (Yes, I talk to my dog as if he's a person, but that's another matter entirely...)

The real reason why it's simply the K-10 and not some clever sci-fi derived moniker (like Korax or Koloth or Kolossus) is actually this: it doesn't have enough personality to have a name. Neither did my previous machine, a North Star Horizon. It simply sat stolidly on top of my desk—on top of a *large* part of my desk, I should note—and quietly did its job at four million cycles per second. It didn't have a personality. It was just the big, fat, *dependable* North Star. (Maybe I should have called it Mongo.)

The K-10 does the same job, equally fast. Because it is nowhere near as elephantine a

machine... it feels nifty. That's the most significant perceptual difference. (But then again, to be fair to the Horizon, in 1978 it was nifty too.) Nifty is nice—but still not enough reason to justify giving the critter a name; so the new machine is the K-10, and that's that. (I will admit, however, that if I were going to name the K-10, I'd call it Glen Gould, because it hums noticeably while it works...)

## A little history

The old North Star was purchased as a kit in 1978, and reverently assembled by Pat Lajko, now of CDE software. (Pat is the author of *Checks and Balances*, about which I will have a lot of good things to say in future outings, but let me just drop this one for now: using C & B, I was able to balance my checkbook for the first time in fifteen years. It was not a job that would have been begun by anyone smart enough to realize how dangerous it really was. It took four days and two computers, but the job got done. I suppose that's a reasonable amount of effort, once every fifteen years...)

But the North Star served me well for six years; and in all that time it never had a failure of any kind—at least not one that was due to any flaw in workmanship or design. If the machine hung up, I could be confident that it was my fault—and not a *serious* problem. This is the hacker's prayer: "Please, God, let it be my

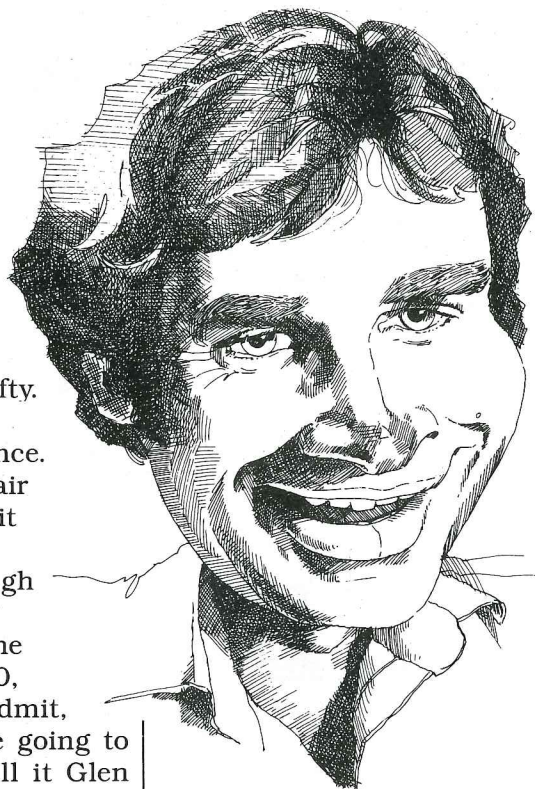


ILLUSTRATION BY JOYCE KITCHELL

fault!" Using the North Star, my prayers were always answered. That machine spoiled me for a lot of other hardware. (I will expect nothing less than the same level of dependability from the K-10.)

There is this difference though: I never had a hardware problem with the North Star that couldn't be solved by simply lifting off its wooden case (no owner ever left the screws in) and dusting off the boards with a can of compressed air. Occasionally you might have to remove the boards, flex them a little, press in the chips, and run a pencil eraser over the contacts (or a little light sandpaper), but that was the extent of the home service it needed—which was fine by me, because that was the extent of home service I was capable of. The K-10, though, is not as much a tinkerer's machine, so I do not expect to *ever* open up this machine myself. (This is an expectation, not a promise.)

However, even that limited skill of being able to keep my computer working in a hostile

environment (Northridge, CA) was enough to establish me as a computer wizard in the eyes of friends who didn't know any better, and why I found myself regarded as one of the local gurus to be visited on the path to computer enlightenment.

(Tangent: it's not too hard to see the computer as a very Zen kind of environment, especially as it's based on nothing more than patterns of yes's and no's, on's and off's, ones and zeroes. It's the purest expression of the Tao. Yang and Yin. One of the tenets of Zen is that you cannot create a position without also creating its opposition. Therefore: how many Zen Buddhists does it take to change a light bulb? Two: one to change the bulb and one *not* to change the bulb. The interesting thing about this joke is that the more you know of Zen, the funnier it gets.)

Anyway . . .

Sometime in the past few months, I realized that the North Star had stopped being a milestone and become instead a millstone. It's a grand old machine—and because it's a big twelve-slot S-100 bus, it'll never really be obsolete—but unfortunately, North Star DOS has long since faded into that limbo best described as, "Well, it seemed like a good idea at the time . . ." That by itself would not be enough reason to take the beast to market and trade it for some magic beans; no, it was the disk drives. The North Star was also equipped with two Tandon *hard-sectored* disk drives; they were fast, efficient, reasonably error-free—and *incompatible* with everything else in the world. I had to order all my software on 8" disks and have Pat Lajko PIP it over. This was a nuisance, but bearable.

What wasn't bearable was the compiling problem. The North

Star double-density drives (single-sided) could only hold 170K. To compile anything but the shortest of programs required enough disk changes to disenchant all but the most determined of hackers.

It was easier to just write everything in BASIC. To hell with .COM files.

Except, there's this game I've been writing, and this super-maze generating program that's part of the set-up, and . . . well, the damn North Star disks were just too small. Pat lent me a double-sided drive for a few months, but then I discovered that over the years one of my drives had drifted *way* out of alignment, and the other drive had drifted halfway . . . and somehow, despite the most careful of instructions to

third book in my mega-novel, *The War Against the Chtorr*, I took a pocket full of cash down to Friendly Computers in Santa Monica and came home with a K-10. (There's this about cash purchases: you don't need I.D., and you don't have to pay interest, and once in a while you can even sweeten a deal by asking, "Do I get a discount for cash?")

The old North Star was purchased by Barry Workman of Workman and Associates (often mentioned by Jerry Pournelle in his regular column in *BYTE* magazine) for the very reason that I sold it. He needed the machine to make his software products available to other North Star owners who were complaining that they were having trouble finding fine software in their for-

---

## *This is the hacker's prayer: "Please, God, let it be my fault!"*

---

the good folks at Micro-Doc in Van Nuys, the wrong drive was aligned, and suddenly, there I was with two disk drives that were not only incompatible with everything else in the world—they were now *incompatible with each other* as well.

I had to start marking my disks "A: drive" and "B: drive."

I think it was then that I decided that I'd had enough.

### **Moving to a hard disk**

I gave a lot of thought to just adding on a hard-disk unit . . . about thirty seconds. But it would have been another huge box on top of the desk, and that felt like a step in the wrong direction. So, when Pocket Books finally got around to paying me (these are the guys who once lost a foot race to a glacier) for the

mat. (Barry first mentioned that he was interested in buying my computer last year at a New Year's party. If Barry were just a little bit better poker player, he wouldn't have had to *buy* it . . .) Barry also carries a lot of spare parts for Tandon drives, so it would be no problem for him to clean and align both of the North Star's (occasionally) fussy drives and keep them in proper operating condition. I, on the other hand, have difficulty maintaining anything more mechanical than a ball point pen. So, it was a good deal all around.

Barry has also promised me a review copy of *WRITE*, the word processing program that Jerry Pournelle cannot be pried free of, and I look forward to seeing if that program is as good as Dr. P claims. Watch for an unbiased  
(continued)

review Real Soon Now.

But for about one month I had two computers on my desk, cabled together so I could copy files from one to the other; I had six years' worth of software, at least twenty megabytes of stuff: user-group disks, games, programs, data files, and notes—including the working drafts of two novels and the complete notes for the rest of *The War Against The Chtorr*. This was not a trivial process. I had several hundred North Star disks (and an equal number of backup copies) to PIP over to the Kaypro 10. I finished the job a half hour before Barry arrived to pick up the North Star.

After he carried it away (Barry Workman is a *big* man; to him a North Star is a portable computer), I made an amazing discovery: I have a really *big* desk.

I also made two other discoveries, of even more importance to other Kaypro users:

### Red, orange and green

When I began copying my North Star disks over to Kaypro, I had no idea just how much data there really was. Real quick I filled up the forty 3M disks I'd bought at Friendly Computers, and it didn't take long to fill the twenty Verbatim disks I picked up at Programs Unlimited in Studio City. Pat Lajko distributes Allenbach disks; he gave me thirty disks and I filled those too. When I ran out of disks, I started copying data into the separate user areas of the K-10's ten megabyte hard disk. Right now, I have less space available on my hard disk than on a brand new floppy.

So I picked up a couple boxes of Centech disks from Micro-Doc in Van Nuys. Centech disks come in a transparent plastic case that opens into a nifty disk caddy, but the real purpose of the trans-

parent box is so that you can see that each disk is a different color. Centech disks come in ten delicious flavors. I like the idea of color-coded disks, so I was looking forward to putting the Centechs to work.

Unfortunately, the K-10 would not format the red, the orange and the green. Not in the second box either. No problem with the light blue, the dark blue, the brown, the yellow, the gray, the beige, and the maroon. But definitely not the red, the orange and the green.

Hmmm.

Back to Micro-Doc. Owner Richard Ravich gave me six replacement disks. (Blue, brown, yellow, etc. No red, orange or green. It probably would have

matter as it might seem. A colored disk jacket has trouble meeting ANSI standards for keeping out light. (If you hold up a light-colored diskette, you can see the actual disk as a darker circle inside.)

It seems that some disk drives use a red LED to read the presence of a write-protect notch or an index hole; *some use infra-red*. A colored jacket is more likely to pass the light than stop it. This makes it difficult for the drive to format the disk or tell if it's write-protected. The colors most vulnerable? Red and orange.

This doesn't explain the failure of the green disk though—or why the yellow disk, which is the least opaque and should be the most

---

*I gave a lot of thought to just adding on a hard-disk . . . about thirty seconds worth.*

---

been an interesting experiment to see if other red, orange and green disks would fail to format, but I leave that for someone else to investigate.) Richard also said it was the Kaypro's fault, not the disks. To prove it, he formatted the offending disks on his IBM PC. And, he noted that they've had problems with other Kaypros refusing to format disks; but he didn't know what colors.

So I checked with Steve Laff at Friendly Computer. He said, "Shame on you. You should know better than to buy off-brand disks." But he admitted that the Kaypros have been occasionally fussy with odd brands.

I mentioned all this to Pat Lajko and he called Steve Rice, director of quality assurance at Syncom. Rice said that Syncom has been doing research into this very area, and it's not as simple a

vulnerable of all, works fine.

Hypothesis: that particular bath of colors and this particular machine are not compatible. The question remains open. (*For more information, see this month's Technical forum.* —TS)

And a conclusion: I hadn't realized how much I'd come to appreciate/depend upon/take for granted the reliability of Allenbach, 3M and Verbatim disks.

### Critical mass

When you buy a Kaypro from Steve Laff, part of the ritual is The Delivery of the Software. With the K-10 this is a stack of manuals almost big enough to require a handtruck. (The programs themselves are already on the hard disk.) Plus: a copy of *PRO-FILES* magazine. Very convenient  
(continued)

... commands: include delete character, move, line  
 out/row variable tab stop; block now, copy, delete  
 not to/disk find; find & replace; write/read from/to  
 list set/return to place markers; insert under and move.  
 ... break displays a horizontal dotted line, out part of  
 the page break line is dominically repositioned when text  
 deletion affects page size. Visual edit of a print  
 line even an inexperienced operator to perform "subshili-  
 ... commands with a two-stroke command, text is automati-  
 ... combinations can be accomplished without additional key-  
 ... especially useful for foreign language accents and  
 ... style is a user-controlled action that alerts the operator  
 ... as a line.



# The Right Commands At Your Fingertips



... For Your Kaypro®!

Now Available: **Only \$19.95**  
 WITH A 15-DAY MONEY BACK GUARANTEE

- WORDSTAR®
- PERFECT WRITER™
- PERFECT CALC™
- dBASE II®

Designed by Training Specialists to help put your program to work, right away!

- Complete commands required to learn and operate your program
- Alphabetized commands to find what you need quickly and easily.
- Organized with key-by-key examples for simplicity.

This Time Saving Aid is Ideal for Training, Invaluable for Beginners, and a welcome convenience for the Comprehensive User. Made of sturdy, non-scratchable, non-glare, color matching plastic.

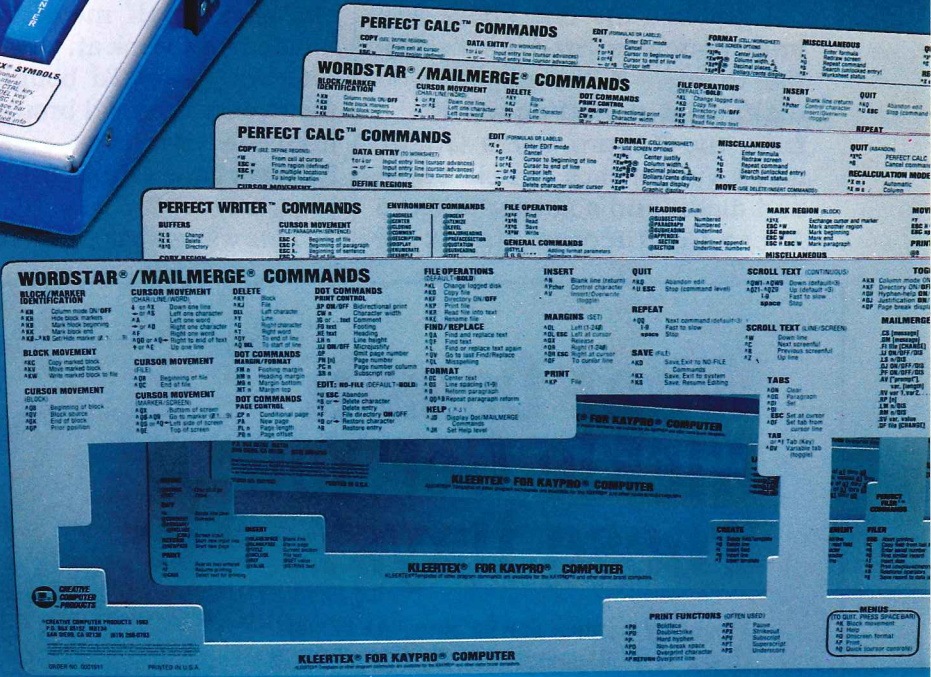
The right commands... ..the right price!

KLEERTEX Keyboard Templates  
 Now Available:

- ▲ \$ 8.95
- \$19.95
- \$32.95

	WORDSTAR®/MAILMERGE®	dBASE II®	MULTI-LAN®	SUPERCALC™	EASYWRITER™	APPLWRITER™ II	QUICK FILE™	PIE WRITER™	APPLWRITER™ II/QUICK FILE™	PERFECT WRITER™	PERFECT CALC™	MULTIMATE™	PERSONAL PEARL™ 1-2-3™	VISCALC®
IBM® STYLE A*	●	●	●	●	●	●	●	●	●	●	●	●	●	●
IBM® STYLE B**	●	●	●	●	●	●	●	●	●	●	●	●	●	●
KAYPRO®	●	●	●	●	●	●	●	●	●	●	●	●	●	●
APPLE® II+	●	●	●	●	●	●	●	●	●	●	●	●	●	●
APPLE® II/e	●	●	●	●	●	●	●	●	●	●	●	●	●	●
OSBORNE®	●	●	●	●	●	●	●	●	●	●	●	●	●	●

\*IBM STYLE A Fits: IBM-PC/XT, COMPAQ and LEADING EDGE.  
 \*\*IBM STYLE B Fits: COLUMBIA, OLIVETTI, CORONA, TAVA, IVY, PRONTO, SILICON VALLEY MICRO, NORTH STAR DIMENSION, LOGICAL L-TX, IMP and SPERRY-PC.



**Call Toll Free 1-800-231-5413**  
 California 1-800-523-5441  
**DEALER INQUIRIES INVITED**



**CREATIVE COMPUTER PRODUCTS™**

P.O. Box 85152-MB 134  
 San Diego, CA 92138  
 (619) 268-0793

Apple/Quickfile-Apple Computer, Inc. IBM-International Business Machines. Osborne-OSborne Computer Corp. Kaypro-Non Linear Systems. Wordstar/Mailmerge-MicroPro International. Viscalc-Visicom. Supercalc-Sorcom. Easywriter-II-Information Unlimited Software. dBase-II-Ashton-Tate. Multiplan-Microsoft. 1-2-3-Lotus Development Corp. Perfect Writer/Perfect Filer/Perfect Calc-Perfect Software. Personal Pearl-Pearlsoft. PieWriter-Hayden Software Co. Compaq-Compaq Computer Corp.

©CREATIVE COMPUTER PRODUCTS™ 1984

## UP AND RUNNING

(continued)

nient, that.

The magazine turns out to be one of the best parts of the purchase.

You'd have to experience it yourself to understand: after six years of staggering through a software desert, it was a heady experience to leaf through a periodical and see page after page of advertisements for things I could actually buy, load and *run on my machine!* I didn't have to look at the bottom first to see what computer they were talking about!

I grabbed my checkbook and immediately ordered a subscription to *Basic-K* (the magazine on disk), and a half-dozen disks from the Kaypro Users Group, and a Vu-Mor rack to hold books and disks, and a subscription to *Micro Cornucopia Magazine*

and—

But let me cut directly to the chase.

Within two weeks, I had another two megabytes of software on my shelves, and another two megabytes in transit. This, plus the four megabytes of goodies that came with the machine, plus the megabyte of stuff a friend of mine asked me to decode, plus the half-meg of games I'd had in this file but couldn't run on the North Star for one reason or another, plus the two and a half megs that Pat handed me to look at, plus the two Infocom games I'd bought, plus the twenty megs I'd brought over from the North Star . . . who the hell ever called this a *micro* computer anyway?

This was also the week I had to

write two columns, deliver a half-hour teleplay, read the galley's on my book due in June (and write a new ending for it,) interview Leonard Nimoy about *Star Trek III*, teach my regular writing class, be guest of honor at a science-fiction convention in North Carolina (I missed the tornados by two days), and begin the final editing of my twenty-third book.

Thank goodness it was a slow week.

### Software overload

So far, I've had just enough time to put some of the disks into the machine and do a directory listing to see what's on them.

I have three word processors.

Three spelling checkers.

A thesaurus.

## What Does a Nickle Get You These Days?

**Inventory Control For As Many As 18,000 Items In 99 Departments. On A KAYPRO 10 Brought To You By ARBA RETAIL SYSTEMS\*\***

A real cash register that talks to your KayPro 10\*, sending it ALL sales transactions, for part number entry and price look up. The ARBA REGISTER. ARBA Point of Sale software. Accounting Plus\*\*\* Inventory Control. The KAYPRO 10. Real time inventory control. Inexpensively.

Great inventory management information that's as up to date as your last sale. You get full reporting: recommended reorder quantities by item, by vendor, by department. Margin analysis, turn analysis. Transactions by employee, by department. And it prints price tags.

18,000 items. Average six turns per year. Five cents per item per turn costs you a lot less than "Oops, out of stock."

The Hardware: ARBA Register Model 5000: \$1395.00

The Software: ARBA Point of Sale 600.00

Integrated with:

Accounting Plus\*\*\* Inventory Control 600.00

\*\*\*Non-Linear Systems, Solana Beach, CA

\*\*\*ARBA Retail Systems, Lombard, IL

\*\*\*\*Ask Micro, Citrus Heights, CA



## ARBA Retail Systems

**890 E. Roosevelt Rd. • Lombard IL 60148  
(312) 620-8566**

**Dealer inquiries welcome.**

Seven different BASICs.  
 Three Pascals.  
 Two Cs.  
 Two Forths.  
 Three spreadsheets.  
 Three versions of Adventure.  
 A dozen Star Trek games.  
 Two Pac-man imitations, one Donkey Kong, and a Space Invaders.

A good two dozen data-base handlers of assorted value.

Five compilers.

And . . . a partridge in a pear tree.

I admit it. I don't know where to start.

Yes, I do. DEADLINE. I found out the importance of the ladder, and eavesdropped on Mrs. Robner's phone call, found out how the murderer got into the locked room, and shaded the message on the note pad. I read the newspaper, searched the basement (heh heh), and am willing to admit I'm thoroughly stuck. (But I suspect the murderer is really Miss Dunbar, because she's the only one who doesn't have an obvious motive.) I broke down and ordered a hint book from Infocom.

I think I'm going into software overload . . .

All of which leads me to an interesting observation: if it's this bad for me—and I'm supposed to be what they call an "experienced" user—then what is it like for people who are just getting involved with personal computers now?

And we're supposed to be still at the *beginning* of the software explosion. A lot of the "experts" are saying that the real action of the eighties will be in software—that the software will determine which computers are hits or misses. (I suspect that's why the Kaypro models are selling so well: they come with \$2000 worth of quality product. I know it was an

important part in my decision to choose a K-10.)

Six years ago there wasn't a lot of software available for *any* machine. Now that's turned around. There's too much software available for *all* the machines. There's too much to assimilate.

What's a user to do?

I don't know what you do—but I read the magazines, *BYTE* and *Infoworld*, *CP/M Review*, *Popular Computing*, and whatever else looks interesting in a given month. (Oh, yes—and *PROFILES*). It's a good start. The magazines are valuable signposts in an uncertain territory. And the territory is probably going to stay very uncertain for a very long time to come.

Remember the old Chinese curse?

Congratulations. You're living in interesting times.

\* \* \*

Next week I plan to start getting into this pile of software. Next issue I'll start reporting back to you what I've found. Some of this stuff looks exciting. And some of it may be well worth the effort to avoid.

Stay tuned. □

# NEVER AGAIN!

Datasolvers is pleased to introduce you to our modem distributorship lines. We think you will find the Anchor Automation Signalman modems and the U.S. Robotic modems both capable and exceptionally priced. Indeed "Never Before" have we offered modems at such low prices! We think you'll agree. Take a look:

	Your Cost!
300-1200 Baud <b>SIGNALMAN MARK XII</b> Hayes (tm) Compatible smart-modem Retail \$399.00 .....	<b>\$339.00</b>
300 Baud <b>SIGNALMAN MARK X</b> Hayes (tm) Compatible smart-modem Retail \$169.00 .....	<b>\$159.00</b>
300 Baud <b>SIGNALMAN MARK VII</b> auto-dial/auto-answer Retail \$159.00 .....	<b>\$ 99.95</b>
<b>SIGNALMAN VOLKSMODEM</b> 300 baud, answer / originate Retail \$79.95 .....	<b>\$ 69.95</b>
U.S. Robotics " <b>PASSWORD</b> " Retail \$449.00 .....	<b>\$399.00</b>

## KAYPRO DISC SPEED / HEAD CLEANING PROGRAM

It seems that drive speed adjustment and portable computers go hand-in-hand. So, why do a 40 minute disassembly of your Kaypro (or pay your favorite technician to do it) to adjust the drive speed, when you can do it in five minutes with this program. By simply viewing a graphic and numeric display on the screen you can check drive speed tolerances. Correction on a maladjusted drive can be made quickly by simply removing the Kaypro cover and turning the drive adjustment pot on the back of the drive. If you use this program once, you'll recover costs in terms of time spent or technician costs.

Plus, for more efficient head cleaning with head cleaning diskettes, use the cleaning program portion of this disk. The heads of your Kaypro will move from inside to outside tracks for total cleaning. Both of these come on one diskette for only **\$40.00!**

**CALL NOW: (316) 264-5068  
 (316) 264-5589**



**datasolvers, inc.**  
 440 MAPLE • WICHITA, KANSAS 67213

TERMS: C.O.D. acceptable. Personal checks required two weeks for clearance. Visa and MasterCard accepted, add 3%. Add 3% shipping and handling charge. Kansas residents add 3% sales tax. All orders returned or refused are subject to a 10% restocking charge. Prices subject to change without notice.

# Micro Cornucopia . .

## KayPro Disk K1 Modem software

This disk is absolutely priceless if you will be using a modem to communicate with bulletin boards, other micros or mainframes.

**MODEMPAT.COM:** Menu selection of baud rate, bits/character, stop bits, & parity for serial port.

**MODEM7.COM:** Very popular MODEM 7 configured for KayPro.

**MODEM7+.COM:** This is MODEM7 & MODEMPAT combined - you can communicate with anything!

**KMDM795.COM:** Super-version of MODEM7 set up for KayPro.

**TERM.MAC:** Commented disassembly of the TERM program you get with your KayPro so you can configure it for any interface.

**SQ/USQ.COM:** Programs to squeeze and unsqueeze files for faster transfer.

## KayPro Disk K2 Utilities

Really oodles of spiffy little (and big) programs to help you get full use of your KayPro.

**ZESOURCE.COM:** A true Zilog format disassembler for 8080 and Z80 object(.COM) files. Now you can turn .COM files into .MAC files.

**UNERA.COM:** Simply enter "UNERA" followed by the name of the file you just erased and presto, the erased file is back! A lifesaver.

**FINDBD54.COM:** Checks an entire disk, reports bad sectors, and then creates a special file containing those sectors. You save a bundle on disks.

**CAT2:** This a group of programs which create and maintain a single directory of all the programs you have on all your disks. Even keeps track of which programs are backed up and which aren't.

**UNSPPOOL.COM:** Use your KayPro II and print files at the same time. Doesn't slow down system response!

**DUMPX, DU-77, COMPARE, SUPERSUB, FORMFEED, DIR-DUMP, . . .** and all have documentation on disk.

## KayPro Disk K3 Games

**PACMAN.COM:** Despite the KayPro's lack of graphics, this one looks and plays amazingly like the real thing! Keep it hidden.

**ZCHESS.COM:** Chess with a 1-6 level look ahead.

**OTHELLO.COM:** You learn it in minutes, master it in years.

**BIO.COM:** Generates custom graphic biorhythm.

**MM.COM:** Master Mind.

**WUMPUS.COM:** Classic wumpus hunting.

## KayPro Disk K4 Adventure

This disk contains one 191K game, Adventure. **ADV.COM:** This is the latest, greatest, most cussed adventure ever devised by half-mortals. This is the 550-point version so the cave is greatly expanded and the creatures are much smarter.

## KayPro Disk K5 MX-80 Graphics

A complete MX-80 graphics package including example files.

## KayPro Disk K6 Word Processing Utilities

A powerful line oriented text editor that looks like Unix's EX, plus a scad of text utilities written in C which handles pretty printing, shortening a file, multiple space output, add tabs, remove trailing whitespace, and more. Also includes **ROFF.COM** a very neat text formatter.

## KayPro Disk K7 Small C Version 2 Compiler

This is a greatly extended version of Ron Cain's Small C compiler. Version 2 has more expressions and larger library, true subset of Unix C. Disk contains compiler, documentation, and library — everything you need.

## KAYPRO USERS DISKS for KayPro II, 4 and 10

\$12<sup>00</sup> each

The following are full disks of software assembled specifically for the KayPro. Each program has a .DOC (documentation) file and many come with source.

## KayPro Disk K8 Small C Version 2 Source

This disk contains the source (written in Small C) of the Small C version 2 compiler. Get K8 if you want to try extending the compiler. (You must have K7.)

## KayPro Disk K9 ZCPR

**ZCPR:** The big news on this disk is the self-installing version ZCPR available only from Micro C. Once you have ZCPR in your CP/M, you'll never go back to straight CP/M! For instance, ZCPR searches drive A for any program not found on drive B, so, even an empty disk in drive B appears to contain every program on A. It's great for text editors, compilers, etc. Plus many more new features to make CP/M easier to live with. In fact, Digital Research incorporated many features of ZCPR into CP/M 3.0. Works on KayPro II and 4.

**PASSWORD:** Lets you encrypt and decrypt your precious files. Includes source.

**EX14:** a super replacement for SUBMIT.

Plus many more: **TREK, FIX, FIND, SNOOPY, ALIENS** and **DIF2**.

## KayPro Disk K10 Assemblers

We've received a lot of requests for a Z80 assembler. So Dana put in some long hours getting the Crowe Z80 assembler to run on the KayPro (and every other Z80 machine).

**CROWCEPM:** This is a first class Z80 assembler. We use this assembler daily (and we included its source). Takes standard Zilog mnemonics.

**LASM:** This is a more powerful version of the ASM assembler you received with the KayPro. This will link multiple programs together at assembly time.

**PRINTPRN:** This program makes it easy to print the listing files generated by the Crowe assembler.

## KayPro Disk K11 Library & Checkbook Programs

**CHECKS:** This has been a very popular group of programs. Categorizes checks so you can keep track which are tax deductible and which get charged to which projects. Includes source and excellent example check files. Very powerful.

**LIBR:** This is a complete set of library routines which let you group files into a single file called a library. Then CP/M sees them as a single program, but with the library routines, you can list them out separately, run them separately, or divide them up again. Almost like a unix environment. **DISPLAY, VLIST, PGLST:** Additional screen and print utilities.

## KayPro Disk K12 FORTH

Yep, this is FORTH, one of the most unique, most extendable languages known, and for a paltry \$12.00. This disk contains not just one FORTH, but two, along with an editor, decompiler and 8080 assembler! The editor even uses the cursor control keys.

**FORTH:** This is true fig-FORTH.

**KFORTH:** A very nicely extended version of fig-FORTH.

**PLUS,** all the rest of the FORTH goodies. (Forth Heaven!)



## KayPro Disk K13 Source of fig-FORTH

All this disk contains is the 40K ASM source of fig-FORTH with the hooks in place for the KayPro. This disk is for FORTH hackers who just can't leave anything alone. (Look, you probably have faults, too.) The source of FORTH is here because there isn't room on K12. This is the only disk that isn't stuffed.

## KayPro Disk K14 Smartmodem Programs

This is the disk for you if you have a Smartmodem compatible modem. With this disk you can communicate with anything but a recalcitrant spouse. Handles goodies like autodial along with multiple directories.

**SMODEMK:** Smartmodem program set up for the KayPro (and source).

**XMODEM:** Lets you remotely control your KayPro from a distant computer.

**KAYTERM:** This is the information you need to run or write modem software on the KayPro.

NEW!

## KayPro Disk K15 Hard Disk Utilities

This disk is for the KayPro 10 or any KayPro with a Winchester drive. With these routines you can not only backup files (with printed directories of the backup disks), you can also break up large files. The backed-up files are not encoded (as they are with KayPro's backup routine) so you can access them on any system.

NEW!

## KayPro Disk K16 Pascal Compiler

This is a real Pascal compiler. It supports only a subset of the language (no records, pointers, booleans, reals or complex) but it generates a real .COM file. Everything is on this disk: the compiler, its source, example programs and documentation.

NEW!

## KayPro Disk K17 Z80 Tools

This is for those of you who are into Z80 assembly language.

**XLATE.COM:** A very good 8080 to Z80 translation routine.

**DASM.COM:** An easier to use version of ZZSOURCE (the Z80 disassembler). This full disk includes source and documentation for both routines.

NEW!

## KayPro Disk K18 System Diagnostics

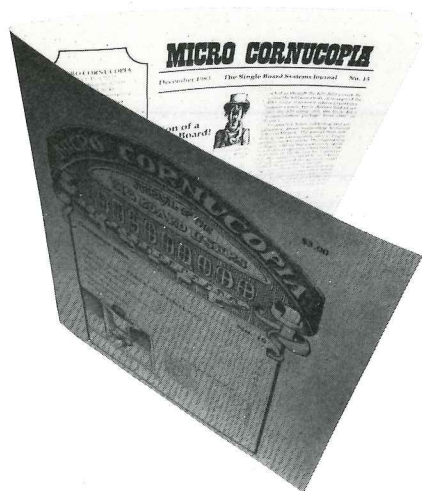
Just as we finished editing the routines on this disk, we received a copy of KayPro's diagnostic disk. The memory test, drive exercise, and drive alignment routines on this disk are more powerful than KayPro's versions. (Plus, it's only \$12!) Setup for KayPro II and 4.

NEW!

## KayPro Disk K19 Prowriter Graphics

This is a complete Prowriter graphics package written by the same Micro C subscriber who wrote the MX-80 graphics package. Plot points, lines, circles, boxes, and more. Examples, documentation, and more.

# We have something special for your Kaypro!



## Micro Cornucopia Magazine

Want to speed up your KayPro? Want to find out what's going on under the KayPro's hood? Want to know who's selling good products and providing good support (and who isn't)? Want to find really inexpensive software? Then you're in the right place.

Micro Cornucopia (Micro C) is the friendly journal for those of you who want to stay abreast of the latest information on KayPros and other single board systems, or want to upgrade your KayPro yourself without paying an arm and a leg. We have regular columns on Pascal, C, S-BASIC, FORTH as well as the popular "On Your Own" feature for those of you who plan to make the KayPro your ticket to independence.

You can get all this and more when you order the special \$2.00 sample copy. In fact, you'll even find out how to turn a KayPro II into a KayPro 4 (or KayPro 8).

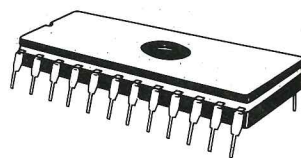
Edited and published by David Thompson

### Subscription Rates

1 yr. (6 issues - bulk rate)	\$16.00
1 yr. (6 issues - first class)	\$20.00
1 yr. (Canada & Mexico)	\$20.00
1 yr. (other foreign)	\$26.00
Sample Issue (turn your II into a 4)	\$ 2.00

### SPECIAL OFFER!

KayPro II Schematic Package	
(If you also order subscription)	\$10.00



## Pro-8 ROM Package

The PRO-8 package from Micro Cornucopia upgrades your KayPro 4 to a KayPro 8 with 784K bytes (96 directory entries) per Tandon 100-4 (or equivalent) quad-density drive. Plus, you can select your own cursor character (and change it at will).

The package includes the new PRO-8 monitor ROM, a disk of formatters and copiers, and printed instructions. (We even tell you how to turn your KayPro II into a KayPro 4.) All you add is one or two double-sided double-density (390K), or double-sided quad-density (784K) drives. You get over 1.5 Megabytes on a two-drive quad-density system!

This new system can read, write, and format KayPro II and KayPro 4 disks as well as KayPro 8 disks. And it recognizes each disk type automatically!

All this for only **\$49<sup>95</sup>!**

Watch Micro Cornucopia for more KayPro compatibles.

Call or write for information on the other KayPro II and 4 ROMS from Micro Cornucopia.

## KayPro II Schematic Package

This is a complete schematic of the KayPro, logically laid out on a single 24" x 36" sheet — no more searching to see where a signal goes or comes from. Even the unused gates are shown.

It's drawn in positive logic, lines are labeled, and we've tossed in hours and hours of careful checking for accuracy. Then we added a **Theory of Operation** that's keyed to the schematic.

**\$20<sup>00</sup>**

POSTAGE PAID

## Micro Cornucopia

P.O. Box 223

Bend, OR 97709

503-382-8048



9-5 Pacific Time  
Monday-Friday



# Brave New Words

*How are writers of science fiction  
adjusting to word processors?*

by J. Michael Straczynski

**E**ver since the early 1920's, when pulp magazines of the era began to publish stories about the possibility—and the impact—of “thinking machines,” writers of science fiction have had a curious love/hate relationship with computers.

The idea that the development of computers would lead eventually to total dependence on them was a theme that would be reflected over the years in a wide range of stories. Computers in everyday life would eliminate the adventurous spirit of people, supercede emotion and eliminate love. There were stories in which computers replaced mankind as the dominant life-form; fought wars using humans as unwitting pawns; merged with humans and became cyborgs . . . even stories where the computer replaced God.

Much is often made of the predictive talents of science fiction (SF) writers. And though computers were a frequent topic, there was little written about word processing. Certainly SF writers of the past could not have envisioned the computer coming into their own lives and helping them write stories . . . even stories about computers.

Yet in recent years there has

been an invasion of sorts. Word processing has gradually snuck up on SF writers insinuating itself to the point where some can't imagine themselves *not* using a computer. Of course, not all writers welcome, or even use computer aided writing.

## **Last of his kind**

Harlan Ellison, author and critic, has written over one-thousand essays, articles and short stories, including the ultimate computer-preying-on humans short story, *I Have No Mouth, and I Must Scream*. He is adamant in his refusal to join the ranks of word processing writers.

“I am now, it firmly and unequivocally appears, the last writer alive today who has not been seduced, somehow, by some kind of electronic means of transcription,” says Ellison. “I use a manual typewriter. I will definitely not *ever* convert to a word processor.”

Though Ellison is notoriously partial to electronic gadgetry, “because there are all sorts of aids that will help us and not atrophy our native instincts,” he sees word processing as a lazy approach to writing.

“A word processor is convenient, and I don't *want* writing to be convenient,” he says—one of

the few people who actually speaks in italics. “Writing is work, it should be work.”

“You should have the perception of being in contact with your work—the work is a living thing. The work and I form a gestalt. And by distancing myself from it, even to the extent of an electric typewriter—where I remove myself from the physical act of putting the words down on paper—I would distance myself from my readers.”

Ellison also takes exception to the terminology involved, comparing a word processor to a food processor, a blender. “*Word processing!*” he announces. “I don't even know what that *means*. And they don't even use English anymore. You can ‘access information’—that's ungrammatical, apart from everything else. They're using a lot of ungrammatical talk, and because there are so many of them, they say, ‘Well, everyone knows what we mean.’ That's the tyranny of the mass, and I just really resist this whole, lemming-like rush to pick up the latest toy. I am blissfully and happily recidivist in this area.”

## **Not totally convinced**

John Varley, author of *Titan*, *The*  
(continued)



©1984 David Darrow

*Ophicuchi Hotline* and numerous short stories is another hold out. "I kind of see myself as the opposition. I compose at an IBM Selectric, and I really like it. Word processors are good for people who do lots of rewrites, and I'm one of those who doesn't do much rewriting. I do my revisions in pencil then give it to a typist who, for \$500, turns out a beautiful manuscript ready for submission.

"Not that I see computers as the machines of the devil, or anything like that," Varley continues, "but I am disturbed by some of the things I see. I'm seeing a lot of writers who aren't making a lot of money investing \$5,000 or more in a word processing system. I think that's a big waste of time and money unless you have a lot of other uses for the thing"

Varley also questions the computer's creative value. "I doubt that it would help the creative process for me, though it may help someone else. In fact, I have this lingering feeling that, rather than improve it, a word processor can actually make your writing more sloppy. You're going so fast you don't have time to give something the consideration it may deserve." He expresses concern about the future. "I can see a point somewhere down the line where it helps you out so much you're hardly writing at all."

Just when everything was going well Varley admits "I think there probably is a word processor in my future. I admit that this is a contradiction, and I'm not upset about it."

### **With reservations**

Norman Spinrad is an award-winning writer whose novel, *Bug Jack Barron*, is among the next few feature-film projects due from Costa Gavras (producer of *Missing*). At science fiction conventions and other gatherings, he

has been an outspoken critic of word processors. And he has just ordered a Kaypro 10.

"I have reservations about it," says Spinrad, "about the creative relationship with the screen as opposed to the paper. You don't know how it's going to work out until you try it. And of course, I'm concerned with losing manuscripts."

Spinrad cites as a reason for his technological leap his "terrible typing. I hope that it'll make life easier for me in revising, though I don't think it'll do much for me on first drafts." Suspecting

For some writers, however, the process of converting to word processing was neither costly nor of long duration. "I was asked to do an article for *Popular Computing* about my word processor," says Isaac Asimov—who with almost 300 books to his credit, as well as a respected magazine that bears his name, needs no further introduction here. "I explained that I didn't have one, so they got me a Radio Shack TRS-80. Had it been left to me, I probably would have stuck to a typewriter forever. I've been using the TRS-80 since June of

---

*"I have this lingering feeling that . . . a word processor can actually make your writing more sloppy."*

---

computerization isn't for everyone, he adds, "People like Harlan Ellison, who writes everything in first drafts—perfect typist—what the hell does someone like him need a word processor for? It's all a matter of individual tastes and work habits.

"Science fiction writers were the first people to get these things," he says with a kind of befuddled pride, as he explains he's glad he's waited until now to computerize. "That's why so many SF writers have such crummy machines—they got theirs so early. I just hope I'm not making a mistake."

Among the other advantages to word processing that Spinrad cites is the ability to ship novels on disks instead of on paper. Not only is it more efficient and cheaper, but one publisher, he notes, "is offering SF writers a bonus of so many dollars per page per book, if they'll give him disks ready to go. What it means, of course, is that you're doing his typesetting for him."

1980—suits me fine." He's not converted to his computer completely, however. "I still use a typewriter for everything but short pieces and final copies."

Though Asimov agrees word processing is in some ways more efficient, there is a limit to the speed of creation from his point of view. "I never had any trouble with the creative process," he says, but "I don't think I can further increase it. I'm afraid that the bottleneck in my case is the speed of thought, and there's nothing I can do about that."

He sees word processing from a utilitarian standpoint. "What the computer does is to turn out cleaner copy. It's easier to edit, without the editing showing, but I never edit much. I can make trifling changes, and still produce a clean copy—with the possible psychological effect that it *seems* better written."

Commenting on SF writers in general, Asimov continues, "Just because science fiction writers deal with technology doesn't

mean they have to be involved in it directly. I write murder mysteries, but I don't necessarily have to carry a gun."

### Convinced

"We are not necessarily our art," says David Brin, the secretary of the Science Fiction Writers of America, and author of a Hugo-nominated novel. "A lot of us are writers for the same internal, psychological reasons as Dickens. A lot of us write SF for artistic reasons, and not because it extolls technology.

"Still," he admits, "word processing has made writing a real pleasure for me again. I would never go back to ink pot and quill pen, or sending my manuscripts out chiseled in stone. When I chipped manuscripts chiseled in stone, the chips kept getting in my eye—to white-out a mistake

you had to wait six days for it to dry—and you end up shipping the manuscript out ninth-class barge mail."

David Gerrold addresses the question of word processing with an intimidating degree of cheerful enthusiasm. An SF writer

old Smith Corona manual.

"In 1963, I took all the money I had saved working as a busboy, and bought a new IBM Selectric for \$600." After writing six novels and an undetermined number of screenplays on the IBM, Gerrold upgraded his typewriter with an

*"SF writers were the first people to get these things. That's why so many have such crummy machines."*

noted for such books as *The Man Who Folded Himself* and *When Harlie Was One* (the latter about the growing pains of a sentient computer), Gerrold also scripted the classic *Star Trek* episode, "The Trouble With Tribbles."

"When I got into writing, all I had to work on was my mother's

add-on Savin Word Processor at a total cost of \$4,000. "It was real convenient, 'cause then I started writing on rolls of butcher paper.

"I did about four more novels on that, and then I could see I wanted more, so in 1978 I bought a Northstar computer and an  
(continued on page 46)

## Is your KAYPRO just a computer?

OmniLogic, Inc. will turn it into an **Omni II**—a powerful engineering work station



We start with a KAYPRO then add:

- **Logic Analyzer**  
For hardware development
- **State Analyzer**  
For software development
- **Signature Analyzer**  
For trouble shooting and production testing

### The result . . . **Omni II**

The logical tool to solve your problems

We will modify your KAYPRO for \$2450.00 or if we provide the KAYPRO for \$3950.00

Options at additional cost

- **Logic Simulation**
- **CAD Work Station**  
PCB artwork, schematics, parts lists, wire lists, etc.
- **EPROM Programmer**

**OmniLogic, Inc.**

For more information call toll free **1-800-228-OMNI**  
350 Sunset Blvd. N., Renton, WA 98055 (206) 271-2000 TWX 4994045

# Processed Words—Yum!

by Mel Gilden

For a long time, I resisted buying a word processor. Being short of cash was helpful, but I swore that my reasons were more than financial. My observation was that most of the folks I knew who had a word cruncher were something very much like hacks, and the more copy they produced, the lower its quality.

Each word processing owner spoke in glowing terms of his or her machine—showed it off to me as if the word processor were an especially well-trained dog. “Seduced!” I cried. “Perverted!” I hollered. I thought it would never happen to me.

But it did.

One summer, I became one of the unemployed. Instead of immediately looking for a conventional job, I decided to put my typewriter where my mouth was and see if I couldn't write full time, the way some of my friends did.

I tried writing both fast and well on my old manual typewriter. But my copy did not always represent my best work because, when a page was heavily marked already, I sometimes stopped editing it just because I had neither the time nor the energy to copy the page over once again. A word processor looked better and better all the time.

When I got one at last, I was ecstatic. It slices! It dices! It juliennes! It makes french fries! Processed words—yum! I could edit on the screen. I would never again have to copy something over. Instead of sitting hunched over a typewriter, I could lean back in my chair with my soft-touch keyboard in my lap. When I wrote to length, I would be able to tell exactly how long the piece would be even after making additions and deletions all the way through.

And I could make those additions and deletions. If I wanted to plant a fact or a scrap of dialogue at the beginning of a story or script, I could do it. If I discovered that a piece was too long, or that a part of the text wasn't necessary after all, I could

take it out. All without “A” pages. All without copying the sucker over to clean it up.

I discovered that it isn't only hacks who crunch words—though many hacks probably do. Anyone who has ever had second thoughts about their writing, who has ever edited and fixed and changed until the words were just right, should consider using a word processor.

Not that a word processor will *make* you a better writer, or a worse writer either, for that matter; it will not *make* you compose faster if the ideas are coming slowly that day. But it may *allow* you to be a better writer.

If you are working on a conventional typewriter and you've just copied the same page for the third time, you might be reticent about typing it over again, even if you've noticed a typo, even if you see a place where you can chop out a word, or a place where an additional one is necessary.

But if you have a word processing program, you can make all the changes you want, secure in the knowledge that *you* won't have to type the sucker over again—that the machine will do it for you. This takes away an enormous amount of worry, frustration and pressure.

Still, word processing is not without its drawbacks. When I bought my system, I was intimidated by the very idea of using a computer to write with—I, who had never owned so much as an electric typewriter. I kept telling myself that it would take a week or two to become proficient enough at running the machine in order for it to be useful to me. I couldn't spare the time.

Time? In the long run, the thing would save me months, maybe years of editing and copying time. Why couldn't I spare a couple of weeks to learn how to use it? I was afraid, that's why.

What if it didn't work? What if I couldn't figure out the machine or the programming or whatever? I knew so little about computers and word processing that I didn't have particular boogey men, just sort of a vague fear that this all was beyond

me, and that I would soon get what I deserved for climbing Olympus to cavort with the gods.

After a week of eyeing the machinery warily, I removed it from the box—the monitor, the disk drives, the printer, the tractor feed. Wow! Star Trek in my living room. Having made the decision to start, I couldn't wait to plug the stuff in.

But how to get the machine up was just the first on my list of new worries. What if I lost pages of manuscript? How would I read my disks if the disk drive got out of adjustment, or dirty, or cranky, or whatever? Even today, I save my document every paragraph or so. So far, the only time I've lost data has been through operator error, and there is much less of that as time goes by.

Even with a full screen, I could see only about a third of a manuscript page at a time. It was a claustrophobic feeling. And though scrolling up or down is easy enough, and I am getting used to the look of the screen, this is still not a situation that I am comfortable with.

Writing is never an easy job, at least not for me. It has its own frustrations, most of which have to do with plot, characterization and the other lumber used to cobble together a good story well told. Like Frederick Brown, unless the work is going well (a state determined by a variety of requirements) I hate to write, but I love to have written.

But the worst frustrations are those purely mechanical ones that a writer suffers when using a conventional typewriter. Imagine having actually met a deadline on a project, and then having to stay up all night to copy it over. There seems to be a rule about this too: the later you stay up, the more mistakes you will make, and the longer it will take the white-out to dry.

Shaking your fist at the universe will do you no good. Neither will screaming in rage. The only thing that will do any good is using a word processor. □

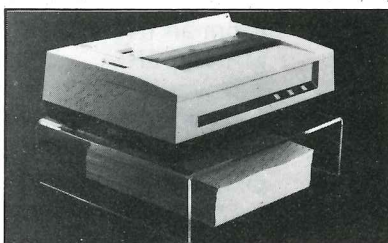
# CLEARLY THE BEST



Custom KayPro Stand: Only \$45.00  
Custom Fitted Dust Cover: \$15.00  
Custom KayPro Stand/Cover Set: \$55.00

## CUSTOM ANGLED KAYPRO STAND

Sturdy, Attractive Clear Acrylic  
Angled For Easiest Screen Viewing  
Handy Storage Shelf  
Keeps Desk Clear  
Keyboard Slides Underneath  
Space Age Design  
Matching Dust Cover Optional  
For Use with KayPro 2,4 and 10 Models  
19"w x 12"d x 5½"h (front) x 4"h (back)



Small Stand: \$29.95 With Slot: \$34.95  
Large Stand: \$34.95 With Slot: \$39.95

## PRINTER STANDS

Sturdy, Highest Quality Clear Plexiglass  
Save Desk/Table Space  
Store Paper Neatly Below Printer  
Simple, Elegant Form  
Additional Use as Computer or Monitor Stand  
Slotted Model for Bottom Feed  
Small Stand 15"w x 13"d x 4"h  
Large Stand 21"w x 13"d x 4.5"

KayPro opened: \$13.95  
Epson MX80, FX80; OKI 82, 92: \$10.95  
C. Itoh 3510, NEC 8023: \$10.95  
Epson MX100; OKI 83, 93, 84: \$11.95  
Smith Corona TP1; Brother HR1: \$13.95  
Juki 6100: \$13.95

## DUST COVERS

Safe—Made of Anti-Static Vinyl  
Strong—All Seams and Edges Machine-Stitched  
Durable—Heavy Gauge Vinyl Made to Last

CALL OR SEND ORDER TO:



**SGW ENTERPRISES, INC.**  
722 Genevieve St., Suite J, Solana Beach, CA 92075  
(619) 755-8324 Telex RCA 295493 SGW UR

SGW Enterprises offers unique, quality products for KayPro, Osborne and other portable computers. Write or call for a free copy of SGW's Complete Catalog for Small Computer owners. DEALER INQUIRIES INVITED.

*Moneyback guarantee.* If unsatisfied for any reason, return product within 10 days for full refund.

### Please send me the following:

— KayPro Stand/Cover Set @ 55.00 \$ \_\_\_\_\_  
— KayPro Stand @ 45.00 \_\_\_\_\_  
— Printer Stand \_\_\_\_\_ (size) \_\_\_\_\_  
— \_\_\_\_\_  
— \_\_\_\_\_

CA residents add 6% sales tax \_\_\_\_\_  
S/H \$3.00 each Stand or Stand/Cover set. One or more covers, add \$2.00 \_\_\_\_\_

**TOTAL ENCLOSED** \$ \_\_\_\_\_

☐ **SEND FREE CATALOG**  
☐ Check enclosed  
(Check orders held two weeks for clearance.)  
☐ Money Order enclosed

☐ VISA Charge  
☐ MASTERCARD Charge  
Card # \_\_\_\_\_  
Exp. Date \_\_\_\_\_  
Sig. \_\_\_\_\_

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

# Kaypro users get a NEW software deal . . .

## NOW, Your Kaypro can Write Programs for You

Your computer is fantastically fast...once it knows what to do. You probably realize that a computer is the combination of hardware and software, working together smoothly, to give you what you want. Either one alone is useless. Software is really the key...the "mind" of a computer system. Every project or task you want to do requires a new specific software application to make your computer behave exactly the way you desire.

Of course you may be able to "force fit" your application into some existing canned package you have, but to really be flexible you need a separate program for your special purpose.

Until now, that meant you were forced to pay money for application software off the shelf, or if you could afford it, have it custom written for you, or if you were qualified, do it yourself...spending endless hours figuring it out and writing it. **Now, your computer can write individual application programs for you.** These programs are each separate, unique software programs that run in the standard BASIC on your computer.

### Programs Without Programming

ICR FutureSoft has released the **NEW** and improved version of automatic program writers called **QUIKPRO+II**. It is a program that actually writes separate BASIC Programs for you...to do exactly **what you want to do**. And it's **simple and easy to use...you create a new program in minutes instead of hours.**

You can quickly generate a new program when you want it. You can generate thousands of different unique programs, each one standing alone as a complete program that runs in BASIC. Best of all, **you do not have to be a programmer to use it.** The QUIKPRO+II software becomes your personal programmer, waiting to do your work for you any time of day or night you choose to use it.

### The All-In-One Program

The custom programs you can generate from the new QUIKPRO+II will let you perform Personal Filing, Fast Data Retrieval, including Changes, Deletions and Searches. You can selectively Print Custom Letters, all kinds of forms (if you have a printer). This new feature is called **Free Form Reporting**. You can even include calculations in the programs you create. QUIKPRO+II is perfect for creating inventory programs. You can use QUIKPRO+II to prepare letters and selectively address the letters to only certain people. And of course you can **SORT** your reports so that they print out information in the order that you want it, or print out only certain information. In fact, you can actually use QUIKPRO+II to create an easy to use Data management program or a simple spread sheet. You can do all of this and more with this All in One program...and the best part is that **you need no BASIC programming experience.**

### How Does It Work?

You can do it simply by answering easy questions that appear on your screen. You won't have to learn any Computer commands or special Programming Languages. Instantly the QUIKPRO+II software instructs the computer to write efficient error free, BASIC Programs and puts the **Programs right onto your own disk, ready for you to use.**

The resulting custom program is truly a separate BASIC program. You can list it. You can modify it. You can customize it to your own liking. You can actually see what makes it tick

### User Proven and Widely Used

QUIKPRO Software is **used worldwide in thousands of sites** by executives, schools, small businesses, universities and major companies like: Johns Hopkins

University, Chicago State, U.S. Dept. of Agriculture, General Electric, Duracell International, Ford Motor Company, Westinghouse United Technologies, American Express, University of Pennsylvania, City of New York and many, many more.

### Read What Users Say. . .

From a GENERAL CONTRACTOR/CONSTRUCTION COMPANY owner:

*"The program seems to be good and I must compliment you on the documentation. It is the **best** of its kind that I have seen."*

From an INSURANCE AGENCY MANAGER:

*"I would like to compliment you on an excellent...program."*

From a HOBBIST USER out in Oklahoma:

*"I thought I would drop a quick note about QUIKPRO. I have it running and it **will do** what I bought it for. I am very pleased with it..."*

This from a Vice-President of a Federal Savings & Loan:

*"In the past several weeks, I have used QUIKPRO software on four **different** programs. I am pleased with the results achieved so far and with your help over the telephone."*

### Special Kaypro Deal

Kaypro users can get QUIKPRO+II direct at the introductory price of \$149.00 plus shipping and handling with a special 10 day satisfaction guarantee from delivery. You can order now by calling TOLL FREE 24 hours daily 1-800-824-7888, ask for operator 552. In California call 1-800-852-7777, operator 552.

Specify your Kaypro Model. Send mail orders to: ICR-FutureSoft, 1718 Kingsley Ave., P.O. Box 1446-KA, Orange Park, FL 32073

Dealer inquiries call (904) 269-1918. QUIKPRO+II is also available on IBM-PC, TRS-80, CP/M 8" and Osborne.

# If you haven't heard about LEGACY's upgrade kits, maybe you need to listen a bit closer

## KAYPRO 400 KB Upgrade Kits\*

KAYPRO 4 upgrade kit consists of a simple EPROM change and about 15 minutes to complete the installation. This will upgrade your standard KAYPRO II (which is 200 KB capacity per drive) to 400 KB capacity per drive.

Price \$118.00

\*TEAC 55B diskette drives  
2 each required for above kit \$340.00 ea.

## KAYPRO 800 KB Upgrade Kits\*

This kit allows the user to upgrade the standard KAYPRO II (200 KB capacity per drive) to 800 KB capacity per drive. Installation requirements are identical to the KAYPRO 4 upgrade kit.

Price \$118.00

\*TEAC 55F diskette drives  
2 each required for above kit

\$390.00 ea.

## Multi-Fonts Video Graphics

This field installable hardware peripheral allows for high resolution (512 by 256) bit mapped graphics on the KAYPRO II/4. Firmware for drawing line vectors, circles, rectangles and point markers as well as down line loadable character sets are standard features. Application programs may draw patterned lines, filling rectangles with a pattern, blanking the display either dark or light and complementing all or portions of the display.

Price \$612.00

## CPU Hop Up Kit

The Hop Up Kit will increase your KAYPRO's calculation speed up to 60%. In electronic language this translates into an increase from the standard 2.5 MHz to a 5 MHz.

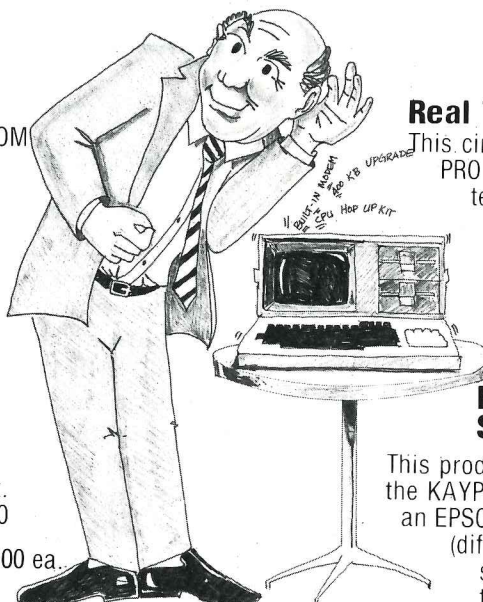
Price \$118.00

## External Video Monitor Adapter

Our video monitor adapter allows the attachment of an external monitor to the KAYPRO II computer system. Extremely useful during presentations and training sessions.

Price \$118.00

EPROM Upgrade \$41.00  
KAYPRO Diagnostics \$41.00



## Real Time Clock

This circuit board plugs into the KAYPRO motherboard and has nicad batteries for power backup (to insure failsafe operation). Included are software routines for clock accessing.

Price \$118.00

## Fancy Font Typesetting System

This product is unique in that it enables the KAYPRO computer when attached to an EPSON printer to print multiple fonts (different type styles) of varying sizes. It includes a font editor that will allow the creation of virtually any font or log.

Price \$180.00

## 8088 Co-Processor

Co-processor uses MSDOS or CP/M86. IBM compatibility coupled with the power of a 16 bit processor.

Price 128K \$795.00

256K \$995.00

## Built-In 300/1200 Modem

This kit mounts inside the KAYPRO and is Hayes Smartmodem compatible (Bell 103/212A). Auto-dial, auto-answer with automatic line speed detection (0-300, 1200 baud) are all standard features. Kit comes with software.

Price \$499.00

## EPROM Programmer

Reads and programs 2716, 2732, 2764, 27128 EPROMS. Direct connect to any RS232C terminal or computer. Programs, verifies, and dumps in both ASC II and hex. Completely menu driven for ease of operation. All software on disk including well commented source code.

Price \$199.00

## External Drives C & D

Simple to install. This module allows for the attachment of two additional diskette drives (C & D) to the KAYPRO. The extra drives may be external or 4 half height drives may be mounted internally.

Price \$118.00

**Yes! I would like to upgrade my KAYPRO with the items circled above.**

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone ( ) \_\_\_\_\_

☐ Check ☐ COD ☐ Visa ☐ Mastercard  
California Residents Add Sales Tax  
\$4.50 for Shipping and Handling

Card No \_\_\_\_\_ Exp. \_\_\_\_\_

Signature \_\_\_\_\_

Send To: Legacy Computer Systems  
26356 Carmel Rancho Lane  
Carmel, CA 93923 (408) 625-6562

\*Kits may be purchased with or without disk drives.

**LEGACY**  
Computer Systems  
Future Technology Today

• 26356 CARMEL RANCHO LANE, CARMEL, CA 93923 (408) 625-6562 •

## MASTERMIND SPREADSHEETS

☆☆☆☆☆☆☆☆

**TEMPLATE OVERLAYS**  
for use with your  
**PERFECT CALC.® SUPERCALC®**  
or **MULTIPLAN®**  
All calculations done for you!!!

☆☆☆☆☆☆☆☆

### REAL ESTATE MASTER \$79.00

- \* Property Record & Balance Sheet
- \* Monthly Expense & Cash Flow Summary
- \* Annual Before & After Tax Cash Flow Summary
- \* Personal Financial Statement
- \* 5 & 10 Yr. Cash Flow & Sales Analysis with calculation of internal rate of return
- \* Includes the following NIREB forms:
  - CID B - Property Analysis
  - CID C - Comparative Investment Analysis
  - CID D - Individual Tax Analysis
  - CID G - Excess Depreciation, Net Proceeds
- \* Plus the following Text Files:
  - Offer to Purchase Real Estate Form
  - Rental Lease Agreement
  - Rental Application Form
- \* Comprehensive Instruction Booklet

☆☆☆☆☆☆☆☆

### 1983 MASTERTAX

**Basic Forms ..... \$39.00**

- \* Form 1040-EZ
- \* Form 1040-A
- \* Schedule 1
- \* Complete Tax Table
- \* Instruction Booklet

**Long Forms ..... \$79.00**

- \* Form 1040
- \* Form 1040-X
- \* Schedules A, B, C, D, E, and G
- \* Schedules X, Y, and Z
- \* Complete Tax Table
- \* Instruction Booklet

**Supplemental Forms ..... \$79.00**

- \* Includes all of the corporate forms and other commonly used forms listed below:
  - Forms 1065, 1116, 1120, 2106
  - Forms 2119, 3468, 3903, 4562
  - Forms 4625, 4797, 4952, 5695
  - Forms 6251, 6252
  - Instruction Booklet

☆☆☆☆☆☆☆☆

- \* All Instruction Booklets available separately for \$7.00 each; price can be applied toward subsequent purchase.
- \* PLEASE SPECIFY COMPUTER, DISK FORMAT, & VERSION
- \* Dealer Inquiries Invited

**TO ORDER - CALL (317) 459-8537**



**OR WRITE TO**



**MASTERMIND** computing

P.O. BOX 2673 • KOKOMO, IN 46902

Check, Money Order, COD, VISA, MC  
Add \$2.50 for shipping - Ind. res. add 5%

## SF WRITERS

(continued)

NEC Spinwriter printer. I've always been advancing to the next level of technology," says Gerrold.

He explains that although word processing is a definite aid to the creative process, it isn't as

they're afraid of the thing being out of their control." He doesn't feel, though, that by virtue of dealing extensively with the future and technology, SF writers should be leading the new technological wave. "I don't think sci-

*"... For the first time in six years, I was paralyzed. I could not write on a typewriter."*

much of a time saver as newcomers might expect. "If you spend eight hours a day on the typewriter, you'll still be spending eight hours at the word processor, but the quality of the work you produce will be more effective. It's quality time, not busy time. Instead of doing one hour of work and four hours of typing, you end up doing four hours of work. The computer does the work that the human being shouldn't have to—the retyping, moving blocks, cutting and pasting. The time you spend is more focused on the actual creating of the text.

"I could not go back to the typewriter," Gerrold continues. "When the Northstar was in the shop for a week and a half, for the first time in six years, I was paralyzed. I could not write on a typewriter. It was like, 'What do you do with these things? Where's the screen?' It was a shocking experience to realize just how transparent the computer environment had become for me to work in."

After using the Northstar for seven years, Gerrold has just switched over to a Kaypro 10.

Speaking as a writer of science fiction, Gerrold says, "I like the technology. The computer is the next step of technology, and if people want to work with an inferior level of technology, I think what's really at work is that

ence fiction writers *should* anything."

### Balance

An informal survey of a number of other science fiction writers turned up one word processor convert after another. The list includes Michael Reaves and his wife (who own His and Her computers,) Anne McCaffrey, Larry Niven, Jerry Pournelle, Robert Silverberg—the list goes on and on.

Typing words on a word processor, the writers agreed, will no more make you a writer than a scalpel makes a brain surgeon, if the other elements necessary to writing are absent. The creative drive, the writer's eye and sensitivity must be factored into the equation, or it just won't work.

"It's important to remember that technology hasn't just been invented," concludes Isaac Asimov. "We've gone from chiseling on stone or in clay, to writing on papyrus, on parchment, on paper, to printing, to word processing. But in the last analysis what remains unchanged is the creative process within the brain. Anything else is just a tool." □

# ~~\$750?~~ ~~\$400?~~ \$3995!

Why pay \$400 or \$750 to get features that Nevada Software offers for only \$39.95? Professional software created by top-notch designers, Nevada is a genuine, old-fashioned bargain. How can we do it?—simple: we pass in-house development, packaging, advertising, & volume discount savings on to you. That's why more than 40,000 professionals, educators, students, engineers, scientists, & businesspeople—worldwide—make it #1. Read about Nevada below; then compare it with packages costing as much as twenty times more. You'll be pleasantly surprised.

**NEVADA COBOL™** So easy-to-learn and use, it's the business programmers' favorite. Based on ANSI-74 with some Level 2 features. Very compact: compile & execute up to 2500 statements in 32K RAM, etc. Dynamic loading of called programs and chaining to new main programs • 18-digit precision • Choice of 16-bit binary, packed decimal, or display • COPY statement • Random Access & Sequential Files, fixed & variable length • Compound conditionals • Interactive ACCEPT/DISPLAY • Easily understood error messages • Diskette & 165-page manual: \$39.95.

**NEVADA COBOL APPLICATIONS—Book 1.** Contains 4 applications programs with complete COBOL Source Code. Saves even professional programmers precious time. 73-page manual: \$9.95.

**NEVADA FORTRAN™** "I heartily recommend it, especially at 1/12 the Microsoft\* price!"—MICROSYSTEMS. A subset & superset to ANSI-66 standards with some 1977 level features. Load & execute assembly language programs, or inter-mix assembly & FORTRAN statements • COPY statement, IF-THEN-ELSE constructs, CHAINING with Blank & Named COMMON, TRACE debugging • Numbers stored as Binary Coded Decimals to preserve accuracy • Arrays up to 7 dimensions • Random Access & Sequential Files • Error trapping; more than 150 error messages • Requires 48K RAM • Diskette & 214-page manual: \$39.95.

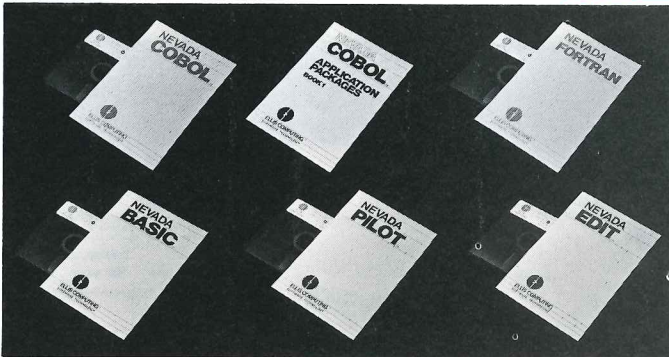
**NEVADA BASIC™** Easy-to-learn, easy-to-use. Lets beginners quickly write useful programs, while offering experienced users professional features. It's simply a better BASIC. Single- or multi-line functions defined by user • Full matrix functions • Built-in full-screen text editor—Prof. Starkweather's design • Random Access & Sequential Files • User control over format of numeric output • BCD Math, 8- or 12-digit precision—no round-off errors • IF-THEN-ELSE statements • Error trapping & recovery • Diskette & 220-page manual: \$39.95.

**NEVADA PILOT™** This advanced version written by the language's creator, Prof. John Starkweather, meets all PILOT-73 standards. Perfect for industrial or office training, virtually all programmed instruction, & data entry facilitated by prompts. Has an integrated full-screen text editor & an interface for latest peripheral options—VTRs, etc. • Simple format & vocabulary: beginners quickly develop dialog programs • Diskette & 131-page manual: \$39.95.

**NEVADA EDIT™** "A well-thought-out product with excellent documentation and an astoundingly low price!"—MICRO-COMPUTING. An elegantly simple, easy-to-use full-screen text editor specifically designed to create COBOL & FORTRAN programs. It may pay off better than any software you've bought. Single-key commands, scrolling, block moves, search-replace, freely-moved cursor • Customizable tab stops, default file type, keyboard control key layout, & CRT by menu selection; configures to most terminals • Requires only 12K disk space • Diskette & 59-page manual: \$39.95.

There's no risk to you. You must be completely satisfied, or return the Nevada package within 30 days—in good condition with the sealed diskette unopened—and we'll gladly refund your money. Why not order Nevada today? Order from *Ellis Computing, Inc.*, 3917 Noriega St., San Francisco, CA 94122. Or phone 415-753-0186.

## NEVADA SOFTWARE FOR CP/M® \$3995



Please send me **Nevada Software Packages:**

☐ BASIC ☐ COBOL ☐ FORTRAN ☐ PILOT ☐ EDIT

The CP/M operating system, an 8080, 8085, or Z-80 microprocessor, and 32K RAM are required. Note: Double Density drives can read Single Density diskettes.

### Disk Format:

☐ 8" SSSD (Standard CP/M IBM 3740)

5 1/4" Diskette for:

- |  |  |
|--|--|
| <input type="checkbox"/> Access                              | <input type="checkbox"/> Micropolis Mod. II (Vector Graphic)   |
| <input type="checkbox"/> Apple CP/M                          | <input type="checkbox"/> NEC PC 8001                           |
| <input type="checkbox"/> DEC VT 180 (Rainbow)                | <input type="checkbox"/> Northstar Double Density              |
| <input type="checkbox"/> Epson QX-10                         | <input type="checkbox"/> Northstar Single Density              |
| <input type="checkbox"/> Heath Hard Sector (Z-89)            | <input type="checkbox"/> Osborne Single Density (Morrow)       |
| <input type="checkbox"/> Heath Soft Sector (Z-90)            | <input type="checkbox"/> Sanyo                                 |
| <input type="checkbox"/> IBM-PC (Baby blue or big blue card) | <input type="checkbox"/> Superbrain DD, DOS 3.X (512 byte sec) |
| <input type="checkbox"/> Kaypro Double Density (NCR)         | <input type="checkbox"/> Televideo DSDD                        |
|  | <input type="checkbox"/> TRS-80 Model I/Base 0 Mapper          |
|  | <input type="checkbox"/> Xerox 820 Single Density              |

Send my order for \_\_\_\_ packages @ \$39.95 each Total \_\_\_\_\_

COBOL Application package @ \$9.95 each Total \_\_\_\_\_

California residents add 6 1/2% Sales Tax. Sales Tax \_\_\_\_\_

Outside North America, add \$6 per package for shipping. Shipping \_\_\_\_\_

(Postage paid within North America.) Checks must be in U.S. dollars and drawn on a U.S. bank.

☐ Check enclosed ☐ Mastercard ☐ VISA TOTAL \_\_\_\_\_

Card # \_\_\_\_\_ Exp. Date \_\_\_\_\_

Signature \_\_\_\_\_

Ship to: Name \_\_\_\_\_

Street \_\_\_\_\_

City/State/Zip \_\_\_\_\_

\*CP/M is a registered trademark of Digital Research, Inc. Microsoft is a registered trademark of Microsoft Corp. TRS-80 is a registered trademark of Tandy Corp. Apple II is a trademark of Apple Computer, Inc. Osborne is a registered trademark of Osborne Computer Corp. Xerox 820 is a trademark of Xerox Corp. Kaypro is a trademark of Non-linear Sys. Heath/Zenith is a trademark of Heath Corp. IBM is a trademark of International Business Machines, Corp. Nevada BASIC, Nevada COBOL, Nevada FORTRAN, Nevada PILOT, Nevada EDIT, and Ellis Computing are trademarks of Ellis Computing, Inc. © 1983 Ellis Computing, Inc.

Send your Nevada order to:

**ELLIS COMPUTING, INC.**

3917 Noriega Street, San Francisco, CA 94122

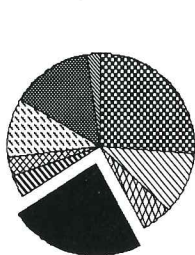
Phone 415/753-0186



# REPORTMAKER:™

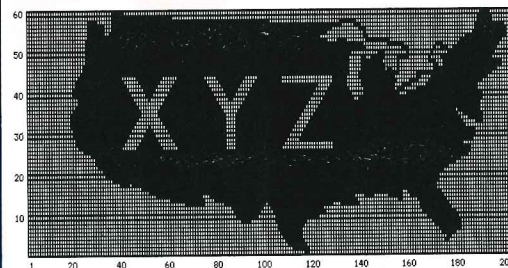
# BEYOND BUSINESS

1982 Sales by products (thousands of dollars)



- microcomputers	60.23 (26.32)
- printers	24.24 (10.52)
- monitors	12.38 (5.42)
- business software	53.92 (23.52)
- hard disks	8.89 (3.92)
- entertainment software	7.92 (3.52)
- science software	24.24 (10.52)
- services	32.22 (14.12)
- education software	5.43 (2.42)

TOTAL: 228.59 (100%)



COMPANY XYZ INC.  
100 Blvd. St-James, Montreal, Quebec, H3A 1A1  
Tel: (514) 232-3333

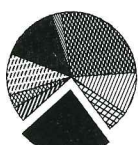
CANADIANA INC.  
100 Avenue Clermont, Dorval, Quebec, H9A 0A8  
Tel: (514) 988-9999

## 1982 ANNUAL REPORT

The year 1982 presented special challenges for our company's main business, selling of software and microcomputers, which is currently in the midst of the most competitive period we can recall.

We succeeded however to have a very good year and our sales have more than doubled over the 1981 figures. As you can notice, software with business applications represented almost one fourth of our total sales.

1982 Sales by products (thousands of dollars)



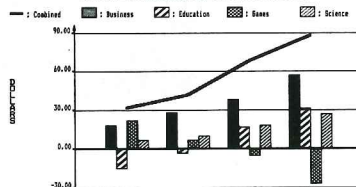
- microcomputers	60.23 (26.32)
- printers	24.24 (10.52)
- monitors	12.38 (5.42)
- business software	53.92 (23.52)
- hard disks	8.89 (3.92)
- entertainment software	7.92 (3.52)
- science software	24.24 (10.52)
- services	32.22 (14.12)
- education software	5.43 (2.42)

It is important to observe that the service activity accounted for as much as 14 percent of the total business during that year. Since the beginning of operations, quality service to customers was one of our main objectives. To meet their needs, we placed great emphasis on developing talented and competent staff equal to the best found anywhere in the industry.

CANADIANA INC.  
100 Avenue Clermont, Dorval, Quebec, H9A 0A8  
Tel: (514) 988-9999

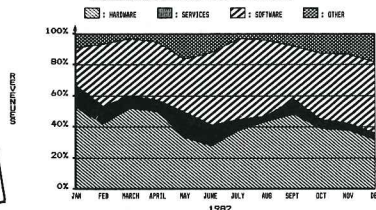
It is especially satisfying to report that during the year of 1982 the profits almost tripled in comparison to the year we started our operations.

Profits by Category of Software (\$ 000)



As we have previously noted, the sales of software in 1982 accounted for a big part of total revenues, as illustrated.

PERCENTAGE OF REVENUES BY CATEGORY



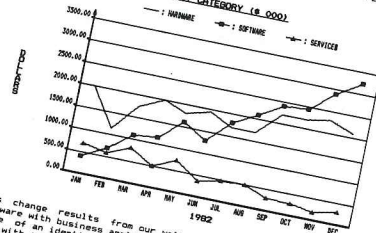
COMPANY XYZ INC.  
100 Blvd. St-James, Montreal, Quebec, H3A 1A1  
Tel: (514) 232-3333

FROM: Esther Falardeau, Vice-President, Division of Marketing.  
TO: Genevieve Hebert, President.  
MEMO  
January 22, 1983

Dear Genevieve:

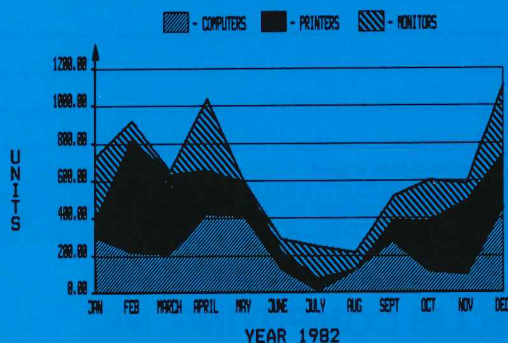
As you can see, the software sales increased dramatically during the last year, while the sales of hardware components correspond to those of previous years.

SALES BY CATEGORY (\$ 000)

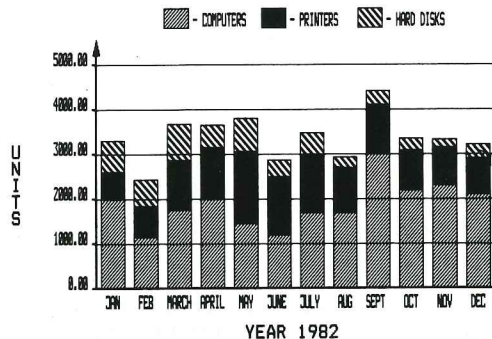


This change results from our well defined sale strategy for software with business applications. We have developed a growing share of an identifiable market of corporations whose needs mesh best with the products and services XYZ provides. As you know, we implement this strategy by concentrating on developing new business software where there is a reasonable expectation of meeting the needs of that part of market. And we can say that in 1982 XYZ's strategy has been to develop products and approaches which differ, often substantially, from the stereotyped. The conditions affecting the marketplace further emphasized the

STOCK LEVEL OF SELECTED HARDWARE PRODUCTS

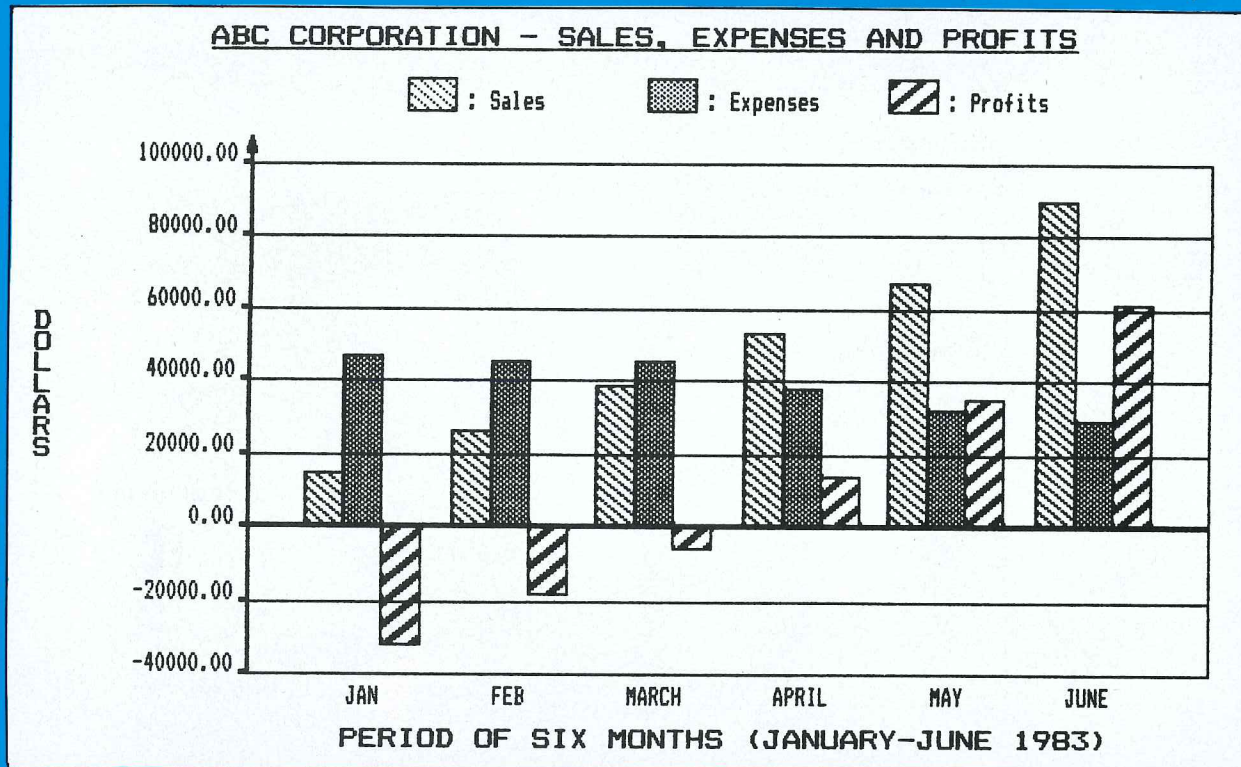


SALES BY CATEGORY OF PRODUCTS



# GRAPHICS . . .

# FOR US \$130



Actual size of Reportmaker's bar graph as inserted into text. Printed on a dot-matrix printer as all other graphics shown.

In many ways, Reportmaker represents a major breakthrough in the business graphics software market. Not only it lets you create very easily and quickly an impressive variety of graphics, but it offers you much more than any other business graphics software for much less money.

## REPORTMAKER + WORDSTAR = GREAT REPORTS

Reportmaker is an integrated software that allows you to create authentic reports by directly inserting the graphics into text created with Wordstar word processor. In communications, reports with graphics combined into text are much more readable and impressive. It gives you a particular edge in transmitting effectively with strong impact the content of your report. And remember, no software other than Reportmaker gives you that opportunity.

## HEADINGS

Another Reportmaker's innovation: it allows you to create great headings on page tops. You can very easily design or conceive your corporate and any other logo in high resolution on the screen, then add the name and address. And the "design grid" will make your logo creation a child's play.

## PRESENTATION GRAPHICS

Reportmaker can also produce a full page presentation graphics. Why spend your money on a plotter when with Reportmaker you can obtain on your dot-matrix printer the same presentation quality, if not better. And if you have access to the right copier, you can obtain high quality and inexpensive black and white transparencies.

## POWERFUL AND FLEXIBLE

With Reportmaker you can present your data in a wide variety of formats: pie charts, bar graphs, line graphs, and area graphs, whichever configuration best suits your application. You can insert them into text, print over a full page or have up to two graphics per page.

Reportmaker offers you also a great versatility. You want to explode a slice or slices in your pie chart? Prefer side-to-side bars instead of stacked or need to add a line curve to your bar graph? Wish a solid area instead of cumulative? With Reportmaker you've got it all and more.

And you have all the flexibility you need. With Reportmaker, graphs are easy to create, recreate and create again. In seconds. Once you've chosen your chart format and entered your data, you can print it immediately to see if the graphic presentation is the most effective. You just hit a key and Reportmaker will print your data in another bar, line or area format, instantly, so you can experiment until graph format is perfect.

Computers and printers supported:  
 DEC Rainbow LA 50 & 100 printers  
 (128 K RAM, 2 disk drives)  
 Osborne I Epson MX with Grafix Plus/FX  
 Kaypro II & IV Star Gemini  
 Apple II & IIe with CP/M Okidata 92, 93  
 SoftCard (64K RAM, 80 column) Apple printer  
 Available on IBM PC in December  
 Very soon available on other printers and CP/M computers

TRADEMARKS:  
 Reportmaker, Wordstar,  
 Epson, Osborne, Apple, Star  
 Gemini, Okidata, IBM, DEC  
 Rainbow and Kaypro are  
 trademarks of Krepec  
 Software Inc., MicroPro  
 International, Epson America  
 Inc., Osborne Computer  
 Corp., Apple Computer Corp.,  
 Star Micronics Inc., Okidata  
 Corp., International Business  
 Machines Corp., Digital  
 Equipment Corp. and Kaypro  
 Corp., respectively.



**KREPEC Software Inc.,**  
 5460 Royalmount, Suite 208, Montreal,  
 Que., Canada H4P 1H8 Tel.: (514) 735-4749

## USER-FRIENDLY

Reportmaker is an interactive menu-driven program that allows you to get professional results within minutes, even if you've never used a computer before. You just have to select a chart format, enter data by filling in the blanks, choose options and let Reportmaker do the rest. The program will automatically scale axes and titles, and create in seconds a beautiful, high quality graph or chart.

Although Reportmaker is essentially self-documenting, a complete print documentation, clearly written and abundantly illustrated, is provided altogether with demonstration files.

But the best of all, the retail price of Reportmaker, version 2.0, is just \$130. You probably have already everything you need to use it, so if you want high quality graphics and much more, send us \$130 and we'll send you a copy of Reportmaker to use free for 20 days. If it's not everything we said it was, send it back and we'll return your money, no questions asked.

But we are persuaded that you will keep it, as did all our customers. Yes. All.

(If you prefer, see Reportmaker in action at your computer dealer now. And if they don't have it, ask them to contact KREPEC Software INC. )



Our Customers about Reportmaker:

"I received two weeks ago the Reportmaker and sincerely I am very impressed. Your company did a great job and your product is beautiful." Dr. Pier Luigi Caldari, Puerto Rico.

"The quality is first class and I want you to know how pleased I am with the program." Battle Vaughan, Florida.

"This program is tops. Very good." Sam L. Brent, Alabama.

"Great piece of software. More than advertised." Alex Mlawsky, California.



**KREPEC Software Inc.** 5460 Royalmount, Suite 208,  
 Montreal, Quebec, Canada, H4P 1H8 Tel: (514) 735-4749

Please send me Reportmaker at \$130 including postage and handling. I understand I may return it within 20 days of receipt for a full refund if not completely satisfied.

Brand of computer: \_\_\_\_\_ Brand of printer: \_\_\_\_\_  
 Disk density: ☐ single ☐ double

☐ Check or Money Order ☐ Mastercard ☐ Visa ☐ Corporate Purchase Order

Card No.: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Name: \_\_\_\_\_

Firm: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Tel: ( ) \_\_\_\_\_ Signature: \_\_\_\_\_

**OR CALL (514) 735-4749 (9 AM - 5 PM Eastern Time)**

All orders are shipped within 24 hours. No C.O.D. Call collect.



# Punctuation: The Lost Art

*A look at stops, pauses, pacing  
and word processing.*

by Wayne Howell

With a few deft keystrokes writers with a word processor can send their cursors leaping and darting about the screen, collapsing and expanding sentences, zapping superfluous commas, and substituting this punctuation mark for that one. Polishing prose to a high gloss has been made easy; what was work on the old Smith-Corona is play on the Kaypro.

Given this, one would expect that if the electronic slate were to have any subliminal effect on style it would be to encourage more ornamentation—the style we associate with Victorian writers. But no. That is not the message the new medium gives, at least not according to Craig Brod, California psychotherapist and author of *Technostress—The Human Cost of the Computer Revolution*. In his recently published book Brod says many writers using word processors report the newfound speed “alters the relation between conceiving an idea and phrasing it on paper” and this causes them to write in a sparer style, using shorter sentences and simpler grammar. The result is writing that is “much like a telegram.”

I doubt there is a malevolent

McLuhanesque spirit lurking in the heart of your Kaypro whispering “telegamese” in your ear when you sit at the keyboard. (If there is, it would make a good plot for a Steven Spielberg movie.) In any event, all writers should be on guard against telegamese, monotonous prose that clumps along predictably; prose that has no rhythm, no beat, no lilt, no syncopation—no surprises.

One of the best ways to avoid monotony is to pay attention to punctuation. Most writers are more concerned with *le mot juste* than with punctuation, and with good reason. It is by your words they shall know ye. Nevertheless, careful attention to punctuation can pay dividends.

I discovered this when I was writing a political satire column for a newspaper. Often I would strive for a particular effect or mood, and not achieving it, would give up in frustration. In time I realized that I could achieve the effects I wanted by carefully controlling the pace by means of the punctuation. I also found that the tricks I used to time a punchline could be put to good use in a more conventional context. They allowed me to produce tighter, more cogent arguments when I wrote medico-legal reports.

Punctuation marks are nothing more than little time delays; their function in a sentence is not unlike a delay-loop in a computer program that controls program execution or screen display. Originally punctuation marks were devised to facilitate the public reading of prose or poetry by marking off the pauses. When reading became more of a private activity than a public one, “elocutionary punctuation” gave way to “syntactical punctuation.” The latter is more concerned with clarifying the text to avoid ambiguity. But notwithstanding the ascendancy of the syntactical school of punctuation over the elocutionary school, a writer should still keep the original purpose of punctuation in mind.

Prose that captures the rhythms of human speech is seductive. Good essayists know this. James Fallows, the Washington editor of the *The Atlantic* magazine, writes on a word processor and then edits in this manner: “When I think I’m finished with an article, I set the print speed at about 100 words per minute, or roughly the pace of reading aloud. I stuff my ears with earplugs and then lean over the plate as the printing begins. Watching the article printed at

*(continued)*

this speed is like hearing it read; infelicities are more difficult to ignore than when you are scooting your eye over words on a page." The Fallows method is great—if you get your printer ribbons wholesale. If you don't, try looking for punctuation infelicities on your monitor. Start from the beginning and read as rapidly as you can while moving your lips; by so doing you will avoid scooting and you will be approximating the speed of the average reader who—unlike you—did not write the piece, and has never seen it before.

I want to encourage you to experiment with punctuation and try out some pauses and stops that, for one reason or another, you never or no longer use. Punctuation is very much a matter of personal style and you don't have to use all the stops to write effectively. But you should know them all, so your decision not to use one or the other is an informed one. I am sure Ernest Hemingway knew how to use the semicolon despite the fact that he never did. He was just not a semicolon kind of guy. However, the Nobel Prize committee did not hold his aversions against him.

makes it *allegro*, or rapid. A good fiction writer will vary pace to invoke mood or convey emotion, but pace is just as important in non-fiction as fiction; in fact, it can be more so. If you insist on dragging readers through a thicket of abstract concepts and technical terms at *allegro* speed you run the risk of losing them.

When editing for periods bear in mind a procession of sentences of equal length induces boredom. Seek out those sentences related by way of subject and try replacing the periods between them with semicolons, if you feel you want to slow the pace a bit, or with "and's" if you don't. In the process of creating some longer sentences you will inadvertently create some shorter sentences as well. This is all to the good: a mix of short and long sentences produces a pleasing rhythm, and the statements you make with the shorter sentences will seem punchier.

### **The comma**

Commas control the micro-environment of a sentence just as periods control the macro-environment of a page. The trick

medium? The simplest way (assuming you are not one of those writers who rides the comma key like a bad driver rides the clutch) is to do your thing and let the commas fall where they may. Then go back to the beginning and enter "lip-moving edit mode." Use the delete key to zap out those commas that get in the way of an orderly flow, maintaining only those commas that are essential for clarity of meaning or instrumental in maintaining the pace you desire.

### **The semicolon**

Many writers avoid the semicolon, either because they are afraid they might use it incorrectly or because they consider it a little too literary. This is unfortunate, because the semicolon is one of the most useful punctuation marks in a writer's tool-box.

The semicolon has a time delay value approximately halfway between the time delay value of the comma and the period. It comes in handy for separating two short sentences which could stand independently with a period between them, but which are somewhat closely connected in sense. Connecting two such sentences with a comma is a grammatical no-no. Letting them sit there smacks of the dreaded telegraphese. The answer is to slap in a semicolon.

Using semicolon you can string together many independent clauses to create very long sentences. Such sentences can be useful when you are marshalling an argument and driving to a conclusion; the conclusion seems more inexorable if it is arrived at in this manner. (You can use semicolons to construct truly colossal sentences. The American record is held by William Faulkner: a sentence in *The Bear* runs slightly over 1,600

## *Prose that captures the rhythms of human speech is seductive.*

### **The period**

If we arbitrarily give the comma a time delay value of one, then dashes and semicolons have a value of two, colons three, and periods four. Since periods control sentence length they have a profound effect upon the overall pace of your prose. A plethora of periods makes your composition *andante*, or slow, a paucity

with commas is to use just the right amount of them. If you use too many, your sentences become, well, jerky. If you use them too sparingly your sentences tend to scroll by too fast inducing a feeling of breathlessness in the reader which can easily result in confusion and incomprehension especially if you are using big words or technical terms.

How to strike a happy

words, or approximately 6 pages.)

Semicolons are also useful for cleaning up a long comma-strewn sentence. Look for those commas that delineate the major subsections of the sentence and replace them with semicolons; this can improve the readability of a long convoluted sentence to a

Aristophanes made the comma and period popular.

The colon is mainly used to introduce lists or quotations and many writers shy away from using it in any other circumstances. But it can be used in other circumstances: since its time delay value is slightly longer

Try experimenting with the colon, putting it in where you want to grab the reader's attention.

### Parentheses

Brackets serve to create footnotes in the body of a sentence. These references, explanations, or "by the way" remarks are not essential to the sentence and the sentence should read just as well without the parenthetical expression (what you put between the brackets) as with it. Extremely long parenthetical expressions (especially those containing actual sentences with punctuation marks of their own) sometimes cause the reader to forget his place when the bracket is finally closed and he is thrust back into the mainstream of the

*(continued)*

*Like Cayenne pepper, dashes should be used sparingly.*

remarkable degree.

### The colon

The colon was the original punctuation mark, appearing in Greek inscriptions as early as the fourth century B.C. It was not until two centuries later that

than that of the semicolon, it serves very nicely when you want to isolate a word or phrase for ironic effect. Example: "If you continue to follow his investment advice, you're likely to end up just like him: dead broke." This kind of punctuation can be very effective as long as you don't overdo it.

## INTRODUCING... **PUPS** THE WORLD'S FIRST TRULY Portable Uninterruptible Power Supply



The BITS PUPS (Portable Uninterruptible Power Supply) is what the world has been waiting for since "computer" became a household word.

No more worries about power losses, spikes, or surges from unreliable AC power. Continuous pure DC power to your computer that reduces heat and prolongs circuit life.

PUPS is compact and completely portable. For the first time your portable computer is truly portable. PUPS<sup>®</sup> allows you to run on AC, self contained batteries providing 3 to 4 hours, or 12 volt automobile power.

PUPS the first complete power system that is compatible with almost any personal computer or intelligent terminal.

Available from Your Local Computer Dealer or Contact BITS for the Dealer Nearest You



11020 AUDELIA RD., SUITE B114, DALLAS, TX 75243  
TOLL FREE 800-527-1378 • IN TEXAS CALL COLLECT 214-340-1208

## PUNCTUATE

(continued)

sentence. Unless you purposely want to discombobulate the reader, you should avoid this kind of construction.

Parentheses have almost no time delay value and consequently they can be useful for rescuing a flagging pace. After you have finished writing, reread with an eye to see how many sentences serve no other function but to explain or elaborate upon the ones that precede them. These sentences might easily be stripped down to their cores and inserted as parenthetical expressions in the preceding sentences.

### The dash

The dash did not really come into its own as a punctuation mark until the twentieth century and there are still some writers who refuse to recognize it as a legitimate stop and will have nothing to do with it. From the time delay point of view it is more or less equivalent to the semicolon, but psychologically it packs more punch. Single dashes are useful when you want to tack an afterthought onto a sentence - like so. And pairs of dashes are extremely useful for offsetting and highlighting parenthetical remarks that are not so much explanatory as downright snarky. Example: "It appears that Senator Millbank—the senator from Exxon and Gulf—is going to support the oil bill."

Like Cayenne pepper, dashes should be used sparingly. Some writers—especially journalists—resort to them when they cannot be bothered to think of which stop would really be the appropriate one in the context.

### Exclamation marks

If you are not writing dialogue, there is little need for exclamation marks.

If you feel you need them to pound home your point, then quite likely you are not making good use of the other punctuation marks at your disposal. Play around a bit. Experiment with the sentence structure. See if you can get the same effect by other means.

### It's your choice

Unlike grammar, punctuation is refreshingly free of "rules." Within reason you can more or less do what you want. I have not emphasized rules in this article. However, nothing that I have suggested violates the accepted rules of punctuation. If you do want to brush up on the rules, I recommend *Mind The Stop*, by G. V. Carey. This slim volume is a classic of its kind and the Penguin paperback edition can be found in any good bookstore.

A less academic way to brush up on punctuation is to start paying attention to the punctuation of good writers, especially poets. You have to make a conscious effort to do this; bad punctuation sticks out like a sore thumb, but good punctuation controls the pace so naturally that it sometimes renders itself invisible in the process.

Notwithstanding the benefits to be gained by reading, one of the best ways to enrich or embellish your personal style is by trial and error. All you have to do is provide the words-Perfect Writer and WordStar have taken the drudgery out of rearranging them. The exercise is worth it, even if you ultimately decide to dress your sentences in the basic black of commas and periods.

There is nothing wrong with keeping it basic. Consider this passage from *The Real Thing*, the latest Tom Stoppard play to open on Broadway: "I don't think writers are sacred, but words are.

They deserve respect. If you get the right ones in the right order, you can nudge the world a little or make a poem which children will speak for you when you're dead." Basic black. Perfect pace (assuming you don't feel the need for a comma after "little"). Noble sentiment. □

## Writing for PROFILES

*PROFILES* Magazine does buy submissions from freelance writers. Our readers range from beginning to expert computer users, so we need a wide variety of articles, from personality profiles to technical how-to articles. Spend some time with previous issues to get an idea of what we buy.

Send your story ideas to us in a single page query letter, giving us a concise description of your subject, and a sense of your writing style and expertise. Enclose clippings of previously published work. If we like the idea, we'll try to contact you within three weeks to discuss it. Include your telephone number and a self-addressed stamped envelope (SASE) with all your correspondence to us.

In the case of reviews, don't contact companies directly for software and hardware. We'll get the product to you after the review is assigned.

*PROFILES* will also buy usable photos and/or art work. If this area isn't familiar to you, talk to us first.

*PROFILES* pays upon acceptance. Our pay scale is competitive and fees are negotiated on an individual basis. We buy first world serial rights.

Though we prefer one-page queries, we will look at unsolicited full-length manuscripts. Enclose an SASE if you want your material returned. *PROFILES* will not be responsible for unsolicited manuscripts or artwork.

All manuscripts should be typed, double-spaced with your name, address, and telephone number at the top. If possible, also send us the manuscript on a Kaypro format diskette, written in WordStar.

Materials should be sent to: Acquisitions Editor, *PROFILES* Magazine, 533 Stevens Ave., Solana Beach, CA 92075. □

# KAYPRO EXPANDABLES

## NOW FOR KAYPRO 10 AND 4-84, TOO!

### Enlarge Your Image!

Add an external composite video monitor for easier viewing with your Kaypro.

New **plug-in** installation gives quick and easy access to a larger screen for all your needs:

- ★ word processing
- ★ spread sheet work
- ★ group demos
- ★ class rooms



### Composite Video Generator

Kaypro II & 4  
Kaypro 10 or 4-84

59<sup>95</sup>  
89<sup>95</sup>

### Improved Character ROM

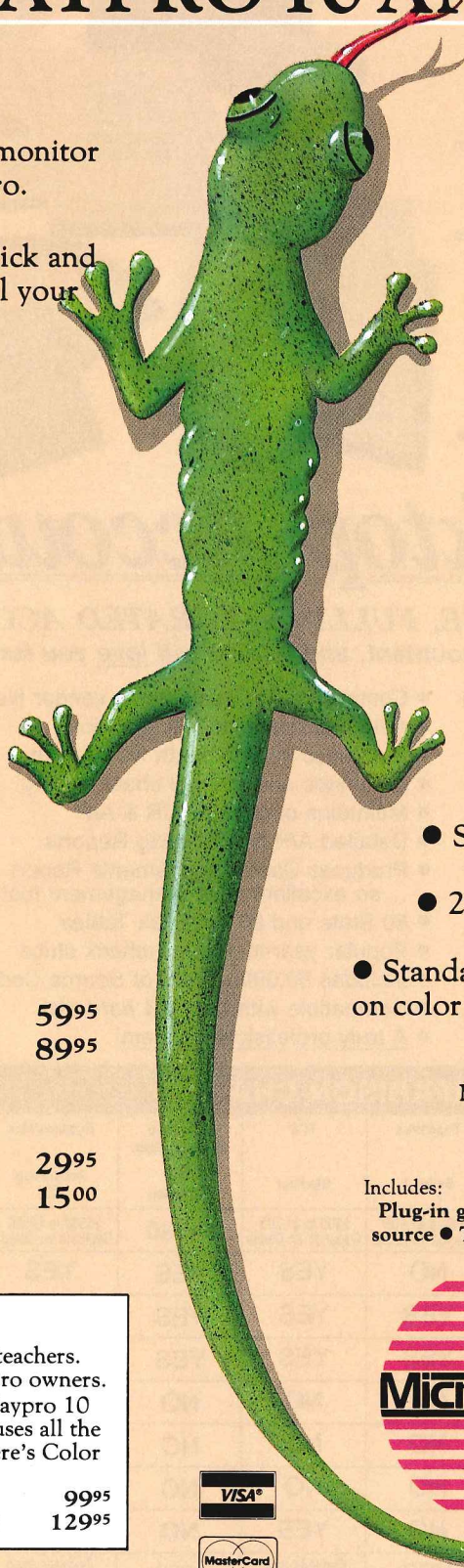
for II or 4  
with video board

29<sup>95</sup>  
15<sup>00</sup>

### T.L.C. LOGO

**Logo** — a first computer language preferred by teachers. Easy to learn and use T.L.C. Logo now for Kaypro owners. Standard version uses internal graphics on the Kaypro 10 and 4-84. The Deluxe High Resolution version uses all the color and sprite graphics available on Microsphere's Color Graphics Board.

**T.L.C. Logo** — Standard (16,000 pixels) 99<sup>95</sup>  
Deluxe (49,152 pixels & color) 129<sup>95</sup>



### Color Graphics Board features:

- 16 Colors — 32 Sprites
- 16K Dynamic RAM
- No soldering on the Kaypro required
- 3 Editors
- Screen to disk & screen to Printer utilities.
- TMS 9918 A Micro processor
- Programmable from M Basic, S Basic, C or FORTH.
- Tutorial manual.



- Simultaneous visibility of sprite code and actual sprite.
- 256x 192 Pixel Pattern (Same as Apple IIe High Resolution)
- Standard Composite color-usable directly on color monitor, with RF modulator a color T.V. set can be used.

### MicroSphere's Color Graphics Board

only **245<sup>00</sup>**

Fits the Kaypro II, 4 & 10

Includes:

Plug-in graphics board ● Graphics editor ● Software with source ● Tutorial on designing your own graphics software  
**Complete**

documentation ● Six-month subscription to Micro Cornucopia

All you add is a standard composite color video monitor. For color TV set add RF Modulator \$19<sup>95</sup>

**MicroSphere, Inc.**

PO Box 1221  
Bend, Oregon 97709  
503-388-1194  
9-5 Pacific Time

Dealer inquiries invited





# ACCOUNTING

for K

**Dependable,  
High-quality  
Accounting  
System**

IN STOCK  
READY TO SHIP

## A professional-quality system at a reasonable price.

Don't let the low price fool you. Desktop Accountant™ is not a "cheap" accounting system, only inexpensive. That's because original development costs were recovered years ago allowing us to sell an excellent product in high volume at low prices and still earn a fair profit. This time-tested, reliable software was designed and written in 1975 for small-to-medium sized businesses. Since then it has successfully proven itself in well over 5,000 companies in all 50 states and in 13 foreign countries. It is also used by hundreds of attorneys, bookkeepers, accountants and CPA's, including the regional offices of several famous "Big Eight" accounting firms! Order yours today with complete confidence.



Complete Package of Software, Training Aids, Manuals, and Users' Newsletters

ONLY  
**\$395**  
IBM-PC format \$49

## Desktop Accountant™

### FULL-FEATURE, FULLY-INTEGRATED ACCOUNTING SYSTEM

*Your Bookkeeper, Accountant, and Banker will love you for installing this great system!*

- For portable, personal, & office micros
- Each module may be run "stand-alone" or fully-integrated to post automatically to General Ledger
- Flexible Chart of Accounts
- Friendly and fully menu-driven
- System-prompted data entry
- On-line data file updating
- Complete, detailed audit trails
- Instant access to all information
- Produces 42 reports & documents
- Prior Year Comparisons
- Income Statements for up to 99 Depts.
- Comprehensive customer & vendor files
- Automatic periodic billing option
- Automatic end-of-month file backup
- Automatic and manual check writing
- Maintains open item A/R & A/P
- Detailed A/R & A/P Aging Reports
- Produces Cash Requirements Report ...an excellent cash management tool!
- 50 State and 20 local Tax Tables
- Popular year-to-date paycheck stubs
- Includes 50,000+ lines of Source Code
- Compatible with floppy & hard disk
- A truly professional system!
- Fast, powerful, efficient programs
- Well-designed detailed reports
- Journal entries limited only by disk storage space
- Up to 400 accounts, 400 customers, 400 vendors, 400 employees
- Automatic end-of-month file backup
- Prints W2's, 941's and payroll checks
- Available for popular portable, personal, desktop and office computer
- Includes full support services
- Easily saves many times its low price!
- User-proven 7 years in 5,000 offices!

### FEATURE COMPARISON CHART

VENDOR:	Rocky Mountain Software Systems	Peachtree	TCS	Data Base Research Corp.	Systems Plus
TRADE NAME:	Desktop Accountant	Series 4	Big Four	The Champion	Accounting Plus
Price	<b>\$395</b> IBM-PC format 495	\$595 to \$1,800 Depends on Dealer	\$200 to \$1,200 Depends on Dealer	<b>\$1980</b>	\$1980 to \$2800 Depends on Dealer
Includes Payroll	<b>YES</b>	NO	YES	YES	YES
Fully-Integrated	<b>YES</b>	YES	YES	YES	YES
Ready-to-Run	<b>YES</b>	YES	YES	YES	YES
Audio Cassette Tape Start-up & Training Aid	<b>YES</b>	NO	NO	NO	NO
System "Road Map" Guide	<b>YES</b>	NO	NO	NO	NO
Free Users' Newsletter	<b>YES</b>	NO	NO	NO	NO
Source Code Included At No Extra Charge	<b>YES</b>	NO	YES	NO	NO
Telephone "Hot Line" Support Service	<b>YES</b>	YES	Depends upon local dealer	YES	Depends upon local dealer
Sample Data Files for Practice & Training	<b>YES</b>	YES	YES	NO	YES

### Look who's using Desktop Accountant™ software

Our excellent Desktop Accountant accounting software is designed specifically for small-to-medium sized businesses: manufacturers, distributors, retailers, service firms, and many other types. Here is a sample (taken from our customer files) of the wide variety of businesses successfully using this user-friendly software:

• Bookkeeping services • CPA/Accounting firms • Construction companies • Wholesale Florists • Retail Florists • Printer Insurance Agencies • Shopping Center • Machine Shop Engineering firms • Software Companies • Computer retail Publishers • Financial services companies • Investors • Application service firms • Dairy • Boilerworks • University Business Schools • Catholic Diocese • Baptist Ministries • Sail Maker • (valuable) Hospital • Car Wash • Public Library • Cement Firms • Industrial products manufacturing companies • Mortuary • Company • TV/Film producers and distributors • General Store (Alaska!) • Health services organization • Government Agencies • Record and Tape stores • Trade Association • Graphics firms • Office products companies • Real Estate firms • Oil Production distributor • Instrument Company • Hydraulic Products company • Outdoor Expeditions company • Many types of schools: Chiropractors • Physicians • Landscapers • Law Firms • Restaurants • Plumbing Companies • and many, many more!

# SOFTWARE

## AYPRO COMPUTERS

### Desktop Accountant™

FULL-FEATURE, FULLY-INTEGRATED ACCOUNTING SYSTEM

includes all four standard general accounting modules:

- General Ledger
- Accounts Receivable
- Payroll with check writing
- Accounts Payable

Everything you need to keep the books... at a price you can afford!

#### Here's what you get:

1. A professional, full-feature, fully-integrated accounting system. 2. Six 5¼" Double Density diskettes. 3. Four easy-to-follow, self-teaching User's Manuals (over 540 pages!). Highly rated by satisfied users. 4. An exclusive, new audio cassette tape with step-by-step instructions for installation and start-up. 5. "Read Me First" a unique 40-page system guide and start-up aid. 6. Complete sample data and sample reports for practice and training. A big help for new users. 7. Free 1-year subscription to Users' Newsletter, "Debits and Credits." It's full of tips, ideas, and useful suggestions from us and from other users. Recent issues have been over 20 pages long! 8. Complete source code so you can easily customize any program to suit your special needs. 9. Telephone "Hot Line" service for helpful Installation support, Start-up support, Technical support, and Training support. Our

support is acclaimed "excellent," "first-rate," and "very courteous and professional" by our satisfied users. 10. Access to our growing network of Experienced User Consultants™ in the U.S. and Canada. These qualified, knowledgeable businesspeople themselves own Desktop Accountant™ software and are available to assist you with almost any aspect of installation, training, operation—or even customization, if desired. You'll receive the latest Directory.

#### Read What Users Say...

"Two hours after receiving the Desktop Accountant I was up and running live data, and generated an entire month's work and financial statements the following day."

—J.C. Bartels, President  
(accounting firm)  
Gonzales, Texas

"It's a great package! I've been in computers for over 20 years and from a technical point of view I'd say that Desktop Accountant is a top-quality, highly structured, well thought-out accounting system. It is easy to understand, and because source code is included, easy to modify—which I've done. For the price, the package is the best one I've ever seen... I continue to recommend it to my own customers here at our agricultural chemical and seed supply company."

—Luke Crawford  
(agricultural supply company)  
Kennett, Missouri

"To get anything better we would have had to spend multiple thousands of dollars. I think it's a dynamite package for the money."

—Bob Cox, V.P. General Mgr.  
(manufacturing company)  
San Antonio, Texas

ALL LETTERS ON FILE

#### GENERAL LEDGER

- Automates bookkeeping and financial reporting process
- Produces up-to-the-minute income statements and balance sheets
- Includes prior year comparisons
- Flexible chart of accounts
- Detailed audit trail
- Trial balance includes all transactions
- Income statements for up to 99 Departments
- Instant on-line access to all information
- Reduces effort and errors

#### ACCOUNTS RECEIVABLE

- Helps control cash flow!
- Produces timely invoices and statements
- Maintains comprehensive customer data files
- Customer activity available instantly on screen or printer
- Summary and detailed aging reports
- Helps speed collections, make financial decisions, and monitor sales performance
- Detailed audit trail
- Includes automatic periodic customer/client billing option—ideal for service businesses
- Open item or balance forward

#### ACCOUNTS PAYABLE

- Greatly improves cash management
- Maintains complete vendor/voucher history
- Tracks current and aged payables
- Produces aged payable reports on command
- Automatic pay selection program allows payment by due date or discount date
- Accommodates both manual and automatic check writing
- Includes check register
- Uses commercially available forms
- Detailed audit trail
- An excellent cash management tool. The savings realized from improved cash control can pay for your Desktop Accountant™ within one year

#### PAYROLL

- Be the office hero each week when the checks come out on time!
- Stores data for all hourly, salaried, and commissioned employees
- Prints payroll checks with an absolute minimum of input
- Maintains monthly, quarterly, and yearly totals for reporting purposes
- Multiple states(!)
- User-modifiable tax tables(!)
- Prints W-2s
- Prepares 941 reports
- Uses commercially available forms
- Offers popular, comprehensive employees' check stub
- Stores and reports employee personnel and payroll information

#### PRODUCES 42 FINANCIAL REPORTS AND DOCUMENTS:

(Displayed on Screen or Printed on Paper)

##### General Ledger

- Chart of Accounts
- Chart of Accounts with summary dollar amounts
- Chart of Accounts with prior year comparisons
- Daily Transactions Report
- Itemized Monthly Transactions
- Balance Sheet
- Balance Sheet with prior year comparison
- Income Statement
- Income Statement with prior year comparison
- Departmental Income Statement(s)
- Departmental Income Statement(s) with prior year comparison
- Detail report for individual accounts
- Trial Balance Statement

##### Accounts Receivable

- Daily Transactions Report
- Invoices (with or without pre-printed forms)
- Statements (with or without pre-printed forms)
- Summary Aging Report
- Detailed Aging Report
- Itemized Monthly Transactions
- Detailed Cust. Activity Report
- Summary Cust. Account Report

##### Accounts Payable

- Daily Voucher Report
- Daily Credit Report
- Checks with Detailed stubs
- Check Register
- General Ledger Transfer Report
- Cash Requirements Report
- Transaction Register
- Open Voucher Report
- Aged Payables Report
- Detailed Vendor Activity Report
- Summary Vendor Account Report

##### Payroll

- Federal Tax Tables
- State Tax Tables
- Payroll checks with stubs
- Payroll Check Register
- Monthly Payroll Summary
- Quarterly Payroll Summary
- Gen'l. Ledger Transfer Report
- Detailed Employee File Listing
- 941 Worksheet
- W-2 Forms Printing

#### SYSTEM CAPACITIES

		Transaction Capacities per month (approximate)		
Account Module	Master File Capacity	200K Diskette	500K Diskette	Hard Disk per Mb
GL	400 Accounts	1,000	3,500	7,000
AR	400 Customers	800	3,500	7,000
AP	400 Vendors	800	3,500	7,000
PR	400 Employees	—	—	—

CPM

#### SYSTEM REQUIREMENTS

Requires either CP/M® or MS-DOS (PC-DOS); MBASIC for CP/M®, BASICA for MS-DOS; 56K to 64K RAM; 2 Disk Drives or Hard Disk; at least 200K of Mass Storage (we recommend more); 132 column printer (an Epson MX-80 or similar printer with compressed mode is acceptable); call for exact requirements on specific systems.

CP/M is a registered trademark of Digital Research Corp.

KAYPRO is a trademark of Non-Linear Systems, Inc.

Experienced User Consultant is a trademark of Rocky Mountain Software Systems.

Desktop Accountant is a trademark of Rocky Mountain Software Systems.

©1982, 1983 Rocky Mountain Software Systems • DA-118(E) CPM

Account	Balance	Debit	Credit	Balance
101-001	100.00			100.00
101-002	200.00			200.00
101-003	300.00			300.00
101-004	400.00			400.00
101-005	500.00			500.00
101-006	600.00			600.00
101-007	700.00			700.00
101-008	800.00			800.00
101-009	900.00			900.00
101-010	1000.00			1000.00
101-011	1100.00			1100.00
101-012	1200.00			1200.00
101-013	1300.00			1300.00
101-014	1400.00			1400.00
101-015	1500.00			1500.00
101-016	1600.00			1600.00
101-017	1700.00			1700.00
101-018	1800.00			1800.00
101-019	1900.00			1900.00
101-020	2000.00			2000.00
101-021	2100.00			2100.00
101-022	2200.00			2200.00
101-023	2300.00			2300.00
101-024	2400.00			2400.00
101-025	2500.00			2500.00
101-026	2600.00			2600.00
101-027	2700.00			2700.00
101-028	2800.00			2800.00
101-029	2900.00			2900.00
101-030	3000.00			3000.00
101-031	3100.00			3100.00
101-032	3200.00			3200.00
101-033	3300.00			3300.00
101-034	3400.00			3400.00
101-035	3500.00			3500.00
101-036	3600.00			3600.00
101-037	3700.00			3700.00
101-038	3800.00			3800.00
101-039	3900.00			3900.00
101-040	4000.00			4000.00
101-041	4100.00			4100.00
101-042	4200.00			4200.00
101-043	4300.00			4300.00
101-044	4400.00			4400.00
101-045	4500.00			4500.00
101-046	4600.00			4600.00
101-047	4700.00			4700.00
101-048	4800.00			4800.00
101-049	4900.00			4900.00
101-050	5000.00			5000.00
101-051	5100.00			5100.00
101-052	5200.00			5200.00
101-053	5300.00			5300.00
101-054	5400.00			5400.00
101-055	5500.00			5500.00
101-056	5600.00			5600.00
101-057	5700.00			5700.00
101-058	5800.00			5800.00
101-059	5900.00			5900.00
101-060	6000.00			6000.00
101-061	6100.00			6100.00
101-062	6200.00			6200.00
101-063	6300.00			6300.00
101-064	6400.00			6400.00
101-065	6500.00			6500.00
101-066	6600.00			6600.00
101-067	6700.00			6700.00
101-068	6800.00			6800.00
101-069	6900.00			6900.00
101-070	7000.00			7000.00
101-071	7100.00			7100.00
101-072	7200.00			7200.00
101-073	7300.00			7300.00
101-074	7400.00			7400.00
101-075	7500.00			7500.00
101-076	7600.00			7600.00
101-077	7700.00			7700.00
101-078	7800.00			7800.00
101-079	7900.00			7900.00
101-080	8000.00			8000.00
101-081	8100.00			8100.00
101-082	8200.00			8200.00
101-083	8300.00			8300.00
101-084	8400.00			8400.00
101-085	8500.00			8500.00
101-086	8600.00			8600.00
101-087	8700.00			8700.00
101-088	8800.00			8800.00
101-089	8900.00			8900.00
101-090	9000.00			9000.00
101-091	9100.00			9100.00
101-092	9200.00			9200.00
101-093	9300.00			9300.00
101-094	9400.00			9400.00
101-095	9500.00			9500.00
101-096	9600.00			9600.00
101-097	9700.00			9700.00
101-098	9800.00			9800.00
101-099	9900.00			9900.00
101-100	10000.00			10000.00

Desktop Accountant's 42 management reports may be produced on either your 132 column printer or on your 80 column printer with compressed mode.

#### Available for these popular 8-bit and 16-bit microcomputer formats:

- ☐ All 8" CP/M® computers, S.D.
- ☐ Northstar Advantage
- ☐ Osborne I single density
- ☐ Osborne I double density
- ☐ KAYPRO II double density
- ☐ Morrow Designs' Micro Decision
- ☐ Apple II or Apple IIe
- ☐ IBM PC & Compatibles
- ☐ TI Professional
- ☐ COMPAQ Portable
- ☐ Columbia MPC
- ☐ Corona PC & Portable

Please call us about other available formats

Not sold in stores • Order Direct by Mail or Phone  
FREE Information Pack showing printed reports, etc.

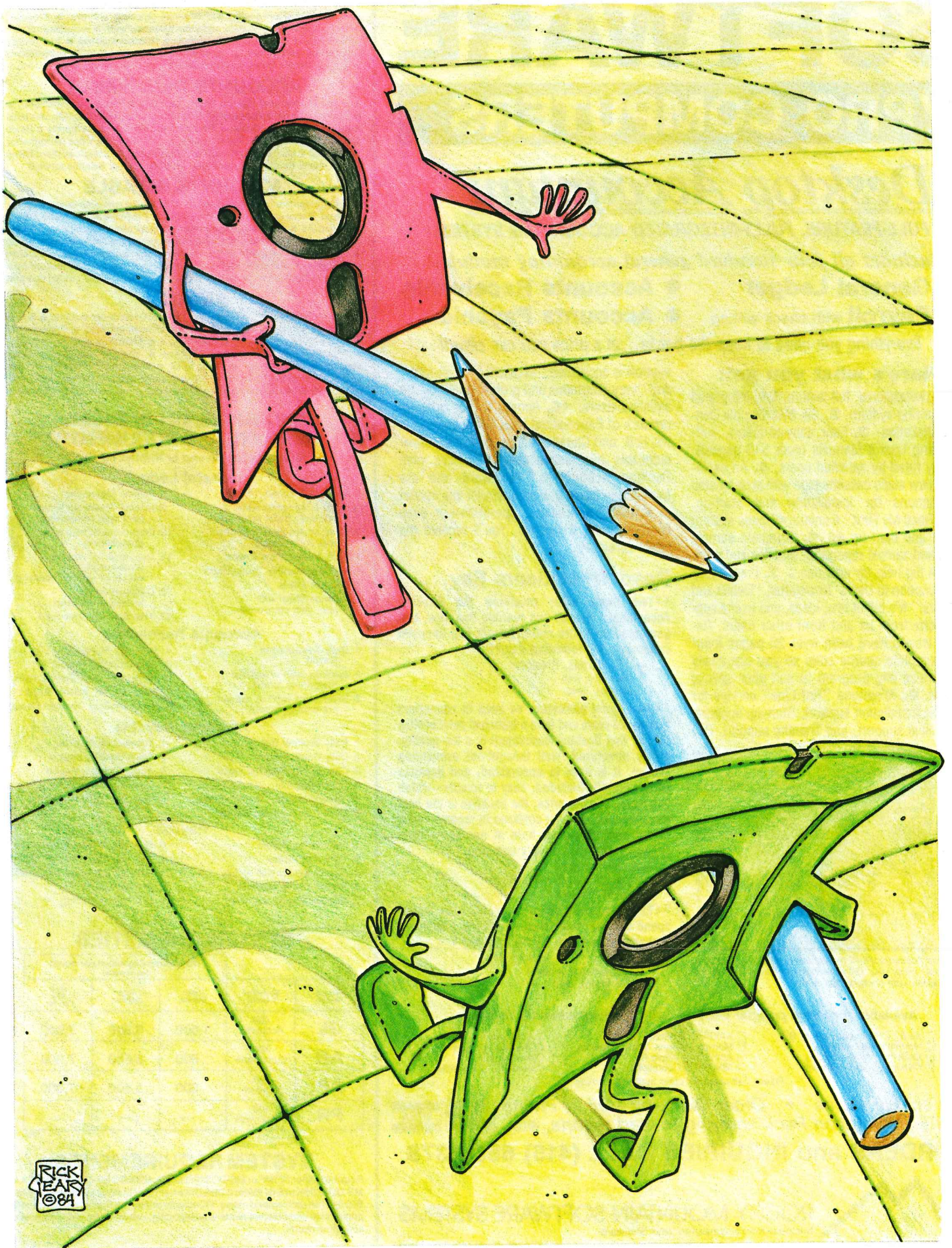


ORDERS AND INQUIRIES CALL (415) 680-8378



ROCKY MOUNTAIN SOFTWARE SYSTEMS  
Business Microcomputers and Software

Send Orders to: 1280-C Newell Avenue, Suite 147-E • Walnut Creek, California 94596  
VISA • MasterCard • COD • California residents add 6½% State sales tax  
Orders shipped within 48 Hrs. via UPS • Add \$5.00 for faster 2 Day Rush Air Service



# A Clash of Styles

*What two packages can—and cannot—  
do to improve your writing.*

by Anne Wayman-Blick

**A**s I remember it, every night in 4th grade, Sunday through Thursday, I would sit in front of Mom's desk while she drilled me on the week's current spelling list. It didn't take me long to discover the sloppier my handwriting, the less likely Mr. McQuire, my mother, or anyone else would be to discover spelling errors, which seemed simpler than learning the list.

As so often happens, my solution later became my problem. Editors insist on typewritten manuscripts and don't like spelling errors, so when I broke into the writing game I was forced to implore, and sometimes employ, friends who could check and correct my spelling.

I've never admitted it before, but the real reason I bought my first computer was because of the spelling checker.

## **A question of style**

With the popularity of spelling checkers, it's probably inevitable programs would be developed to check style.

As a writer, I view the notion of programs judging the quality of writing with deep suspicion. I've always been delighted by good editing, but I know enough about

my computer to be sure it isn't capable of making intelligent comments—I've never considered "BDOS error on B" intelligent, or particularly helpful. Besides, style is a writer's own.

Style usually comes to a writer

the reader was in serious trouble most of the time, a man floundering in a swamp, and that it was the duty of anyone attempting to write English to drain this swamp quickly and get his man up on dry ground, or at least

---

*Style usually comes to a writer  
naturally, if at all, as a result  
of putting many words on paper.*

---

naturally, if at all, as a result of putting many words on paper. It's that indefinable something separating Anais Nin from a hack, or Douglas Hofstadter from the average computer writer.

Style has been studied, argued, discussed and written about. It has also been imitated and butchered. It changes from writer to writer, and from era to era.

Unlike spelling, there is no dictionary of style. There are some rules about grammar and word use, and these both affect, but do not create style. The closest book we have to a bible of style is William Strunk Jr.'s thin volume, *The Elements of Style*.

E.B. White, in his 1971 introduction to Strunk's book says about the author, "Will felt that

throw him a rope." Style certainly affects a reader's understanding, and as Strunk himself put it, "The approach to style is by way of plainness, simplicity, orderliness, sincerity."

If draining the swamp for the reader with plainness, simplicity, orderliness and sincerity is the goal, can a computer program help a writer achieve it?

Maybe. Style checkers operate the same way as spelling checkers do. A dictionary of phrases, words and punctuation marks is created, and the computer compares a document to the dictionary. When a match is found, the computer signals the user.

The computer can only check what appears in the program's dictionary. The quality of these  
*(continued)*

## STYLE

(continued)

dictionaries depends on the software company. The usefulness of the dictionaries depends on the program and the way the writer uses it.

Use of a program able to locate extra blank spaces, doubled capitals, unpaired quotes and the like can go a long way toward cleaning up your manuscript, which is certainly a step toward rescuing the reader.

Since computers and programs are not yet capable of comprehension, they cannot tell if your sentence makes sense or reads well. Such judgements are the responsibility of writers and editors. A program can, however, call attention to phrases and words that are typical problems.

*Grammatik*, from Digital Marketing, and *Punctuation and Style*, from Oasis Systems, are both programs aimed at helping the writer polish prose. They both check for punctuation pairing and spacing errors. And both contain dictionaries of words and phrases that may or may not be a problem.

If you use WordStar, you may use either program. Unfortunately, *Grammatik* works only with WordStar, leaving Perfect Writer users to *Punctuation & Style*.

### **Grammatik**

*Grammatik*, a style checking program by Wang Electronic Publishing, consists of two dictionaries and two utility programs. PHRASES.GMK, the most usable dictionary, has over 500 words and phrases used to judge your manuscript. When it finds a match, it displays the sentence where the problem occurs and a suggestion for improvement. You have a choice of marking the text for future editing, sending the sentence number and the comment to a printer, or

telling the computer to ignore the problem.

The second dictionary is SEX-IST.GMK, which contains roughly 100 gender specific words. The procedure is the same. These dictionaries may be used together or separately, and you may develop your own dictionaries if you wish.

PROFILE is a program capable of showing you how many times you use each word in a manuscript. Each word in your document is printed, either on the screen or on paper, along with the number of times it was used. The theory behind this is to help you avoid overuse of individual words.

SORTDICT is a utility designed to sort dictionaries into alphabetical order, and may be used for other alphabetizing chores as well.

### **Putting it to work**

Using a draft chapter of a booklet I'm writing, I put *Grammatik* through its paces.

On the first pass, *Grammatik* reported 3,756 words in the sample chapter, three cases of doubled words or punctuation, and one unbalanced quotation. This information was displayed in a box at the end of the run, after giving you a chance to mark, print or ignore the problem area as it's displayed on the screen.

For drill, I ran the same manuscript through the Word Count program on the Word Plus. It reported 3672 words. The difference seems to be in the way they treat numbers and hyphenated words. For simple word counting, The Word Plus is easier to use.

PHRASE, which is the style portion of *Grammatik*, revealed 38 potential problems. The first looked like this on the screen:

A quick belt, a week long bender, or some pills or pot would, for awhile, fill those empty feelings we carried around inside.

----->awhile - "M" - Commonly misused word

Suggestion: a while; awhile=adverb

The sentence is mine, exactly as it appears in the manuscript. The program points out *awhile* is a commonly misused word, and suggests changing it to *a while*. (*Awhile* is an adverb.) The lack of a space after the semicolon is the program's typo—a bit sloppy perhaps, but not unusable.

I marked it for later change, and also used the print option, which proved helpful.

Another comment looked like this:

In order to stop, we had to seek help.

----->In order to - "W" - Wordy phrase

Suggestion: to

### **Making the changes**

When I had worked through all 38 comments I returned to my word processor and brought up the marked copy of my manuscript. Using the printed copy of possible errors, I discovered you can use a search for **?#**, *Grammatik*'s marking characters, with a blank replace to take you to the first error and found my text looked like this:

A quick belt, a week long bender, or some pills or pot would, for awhile, **?#m** fill those empty feelings we carried around inside.

Affirming the replacement of **?#** with a blank left me with only the **m**, which refers to a commonly misused word, to deal with. The addition of a simple space created *a while*. You will probably want the printed list to help you

notice easily missed typos, like the difference between "awhile" and "a while" on manuscripts you've written. The list also helps make sure you're in the proper location. The numbering of sentences is impressive, but of little value if your word processor, like mine, doesn't number sentences.

My second error was marked with a ?#w for wordy. This is a fine example of not taking all the recommendations at face value. Although the phrase *In order to* is wordy, I decided that it added to the pacing of the paragraph, so, I deleted the mark rather than changing the phrase. Your choice in cases like this will depend on your own style.

PHRASE.TXT also picked out words it considered vague like very, redundant like later on, and awkward usage like and/or. You may want to make a mental note

to use Grammatik on manuscripts you've edited at least once because you tend to purge most of these out yourself.

### Reducing sexist terms

Next I tried SEXIST.TXT on the original version of my chapter, and was delighted to receive a score of 0. However, I wanted to see what it would report on an ran a portion of a soon-to-be-submitted romance novel. All gender specific words were dutifully reported in the above manner, which is interesting information, but not much help considering the material tested.

An examination of the dictionary itself revealed a sound selection of alternative terms. For instance, *attendant* is suggested as a replacement for *bellboy*, *relative* for *kinsman*, *representative* for *spokesman* and *guard* for *watchman*. It also suggests *macho* be avoided entirely, *he*, *her* be revised and doesn't solve the problem of *waitress* at all, but then neither have I.

If you're just learning to purge your writing of sexist terms, this program can be a real help, and it certainly acts as a double check for all of us. I will probably keep the list in my desk dictionary for reference.

PROFILE dutifully listed each word in my manuscript sorted by how often it was used. A real yawn in my opinion.

PROFILE dutifully listed each word in my manuscript sorted by how often it was used. A real yawn in my opinion.

### Punctuation & Style

This program works with WordStar, Perfect Writer and several other word processing programs. It uses dictionaries like Gram-  
(continued)

## UNLEASH THE POWER OF YOUR KAYPRO

Now you can use your Kaypro to its fullest by building your own software library for as little as \$.98 per program. Just think of it, utilities, games, subroutines, tutorials, and data files to build your very own software library with, and all for as low as \$.98 each. Subscribe to BASIC-K, the only disk magazine for the Kaypro computers, and receive all of this and more. You will receive, via 1st class mail, a floppy disk each month with up to 8 ready-to-run programs. You will also receive our "GOLD SHEETS" which contain program documentation, editorials, product reviews and much more. By subscribing to BASIC-K MAGAZINE you will not only build a software library but at the same time will be expanding the use of your Kaypro computer. So SAVE up to \$55.00 off of the single issue price by subscribing today.

### PROGRAM SUBMISSIONS

If you wish to submit a program or article for inclusion in BASIC-K, please write to: BASIC-K MAGAZINE, 119 S 10th, Duncan, Oklahoma 73533

### GUARANTEE

Damaged or faulty disks will be replaced at no charge. If you wish to cancel a subscription, simply return the most recent disk in its sealed package and you will receive a full refund for this copy and all unmailed issues.



### SUBSCRIPTION RATES:

1 Year .....	\$95.00
6 months .....	\$55.00
Single .....	\$12.50

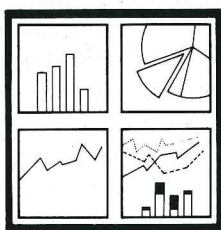
Send Check or Money Order to:

**BASIC-K MAGAZINE**  
119 S 10th  
Duncan, OK 73533

**1 (405) 252-3297**

We also accept Visa, Master Card or American Express.  
COD add \$2.00. Oklahoma residents add applicable sales tax.

# Get bGraphic+ Software Or A Plotter



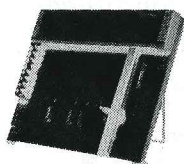
Produce graphics on non-graphic or graphic CPM\* or IBM\* computers. Access dBASE II directly then output to printers or plotters.

Display one or more bar, line, or pie charts at a time. Characters are used to display charts on non-graphic screens. Output to multipen plotters and printers. Use data from other software packages or input information via the keyboard. Determine your own text height, width, and angle, and place the text anywhere. Use multiple grid styles and unlimited line types. Use menus or create your own command files. Save graphs and command files on disk for future use. 30-day money-back guarantee.

Professional  
graphics at  
a budget price.

\*Registered Trademark of Digital Research and IBM

## \$229.00



### USE A ROLAND D G PLOTTER WITH THE MOST FEATURES PER \$\$.

Eight pen plotter  
with 11"x17"  
plotting surface. Price:

## \$995.00

Single pen plotter  
with 11"x17"  
plotting surface. Price:

## \$750.00

Other plotters available.

**Special offer!!** Buy bGraphic+ software with one of the above plotters and save \$100.00.

Send check, money order, purchase order, or VISA/MasterCard #.

Dealer inquiries invited.



## 214-352-8100

2602 Electronic Lane #604A  
Dallas, Texas 75220

## STYLE (continued)

matik, but they're set up differently.

CLEANUP is designed to do just that, help you clean up your manuscripts by pointing out extra spaces, unpaired quotes, doubled words and problems in capitalization. WordStar users will delight in its ability to locate unpaired print commands.

It does this with the help of two additional dictionaries, ABBREVS.TXT, which is a file of abbreviations, and CAPSEX.TXT, which is a short file of exceptions to capitalization rules, like the name JoAnne. Both dictionaries can, and probably should be edited to fit your own writing. This can easily be done with your word processor.

You may find using CLEANUP a bit easier than Grammatik, except for the devilish business of remembering to signal for double-spaced manuscripts—otherwise Punctuation & Style considers every new line a capitalization error. Using CLEANUP.COM on the same sample chapter, revealed one more spacing error than Grammatik had shown.

### Roadblocks

The style portion of the program is one you'll either love or hate.

be edited with any word processor.

The manual itself is not a bad guide to good writing, which is above and beyond the duty of a software manual. The author is clear about the value of the program, saying, "You should remember not to take PHRASE's advice too literally." This is true of all style checkers.

The program is harsher than Grammatik, and although it called 42 areas into question, it didn't always pick out the same problem. Just another example of the nature of style—there often is no right or wrong, rather just an opinion. Punctuation & Style's first example looked like this on the screen:

FINALLY: LASTLY

[Finally,] our drug of choice turned on us, often causing us; to seek the solitude we had before avoided.

Often the suggestions made reveal the computer's inability to understand the meaning of a sentence. You may have good reasons for using wordy or folksy phrases, although such use should be conscious.

PHRASE questions the use of "Finally", displaying the word in question and the suggested

## *Refuse to automatically take the program's word for anything.*

PHRASE takes a hard look at eight categories called Roadblocks. These are cliches and awkward, erroneous, folksy, muddy, pompous, redundant, and wordy phrases.

The manual describes each in detail and includes the default list of phrases. The phrases may

replacement, followed by the whole sentence so you can see it in context. As with Grammatik, you can mark, ignore or print the comment. Like Grammatik, PHRASE didn't like my use of "In order to". Editing is done with your word processor.

(continued)

# BUSINESSMASTER PLUS

ACCOUNTING SOFTWARE SO COMPLETE,  
IT'S A MASTERPIECE.



For any CP/M based machine.

## An 8-module masterpiece for the price of one:

Packages available:	Us	PT	STAR	AP	Yours
General Ledger	yes	yes	yes	yes	—
Accounts Receivable					
Order Entry	yes	yes	yes	yes	—
Accounts Payable					
Purchase Orders	yes	yes	yes	yes	—
Inventory (Regular)	yes	*	no	yes	—
Inventory (Raw Goods)	yes	—	—	—	—
Payroll	yes	yes	yes	yes	—
Fixed Asset Accounting with ACRS	yes	*	—	—	—
Mailing List	yes	—	—	—	—

Us BusinessMaster STAR Star Computer Systems  
PT PeachTree AP Accounting Plus

\* Available separately

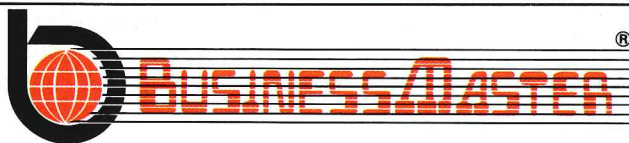
- BusinessMaster® is a trademark of BusinessMaster, Inc.
- Peachtree is a trademark of Peachtree Software, Inc.
- Accounting Plus is a trademark of Software Dimensions, Inc.
- Star is a trademark of Star Computers, Inc.
- CP/M is a trademark of Digital Research, Inc.

Accounting software so complete, the only thing we left out was the high price.

**CBASIC2 Version \$289**  
**CB-80 Version \$495**  
**CB-86 Version \$495**

There's no room here for a full comparison. Send for our free software performance evaluation, and judge BusinessMaster Plus for yourself.

Dealers and distributors' inquiries welcome.



BusinessMaster, Inc.  
1207 Elm Avenue, Suite M  
Carlsbad, CA 92008  
619-434-6165  
800-521-9277 (Outside California)  
Telex 499-3505 BMAS

## STYLE

(continued)

Punctuation & Style also has a dictionary to check use of passive voice. Slipping into passive voice can be a problem, and usually results in dull writing. Generally, readers prefer the active voice because it's more immediate. For instance, *Joan used the computer* is (marginally) more interesting than *The computer was*

used by Joan. The manual offers a surprisingly clear discussion of the passive voice.

Running another, virgin, copy of my now well-examined chapter, with PASSIVE.TXT resulted in locating 284 uses of past participles used with an auxiliary form of the verb to be, which called 85 sentences into

question.

I was appalled by the number. However, examination revealed roughly half of these instances had been deliberate use on my part of the past tense. (Whew!) For the most part, I disagreed with the rest of its accusations—again, often a case of arguing red is a better color than green.

### Summary

Can a style checker benefit your writing? Probably. CLEANUP will probably become a staple of mine like THE WORD PLUS.

As a professional I know my writing can always be improved, and I wish I'd had these programs when I was first learning to put words on paper. Of course, I wish I'd had a computer instead of a typewriter back then too.

Punctuation & Style does a more thorough job of checking, and the documentation, although not perfect, is much easier to use. It's also handy to have solid information about writing in the same book. The manual for Punctuation & Style could be used without a program as a writing aid.

Grammatik's manual is obtuse about the program's operation and offers no bonus of helpful information about writing.

Either program could help you learn the fundamentals of writing, but neither will turn you into Alice Walker or Thomas Wolfe. Off-hand I would say if your writing is doing the job you want it to, you can probably skip both these programs. Of the two, I think Punctuation & Style offers more for the long haul.

If you do you use one or the other, remember the limitations of your computer, and refuse to automatically take the program's word for anything. Word processing software offers ways to

(continued)

"At last . . . an intelligently designed work station for the Kay Pro."

— Pro-Files July-August '83

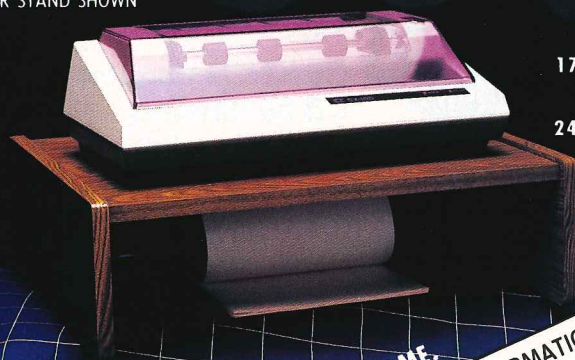
# THE KAYSTAND

Tilting base board, diskette storage shelf and attractive honey walnut finish.

**\$4500**

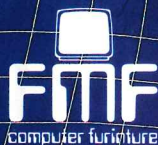
A matching printer stand is the perfect complement, available for 17" or 24" printer.

17" PRINTER STAND SHOWN



17" **\$2500**

24" **\$2700**



DEALER INQUIRIES WELCOME.

ORDERING INFORMATION

Send check or money order plus \$3.00 shipping and handling to F.M.F.  
P.O. Box 1860 Simi Valley, CA. 93062 or phone (805) 522-0624.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

Allow 3 weeks for Delivery.

# The Most Powerful 64 K Integrated Software For Your Kaypro.

## T/Maker™



### Integrated Software

Including:

Word Processing  
Spread Sheet Analysis  
Data and List Management  
Bar Chart Graphics

**Everything  
on One Disk.  
Everything for \$275.**

For more information please write or call:

T/Maker Company  
2115 Landings Drive  
Mountain View, CA 94043

**415/962-0195**

InfoWorld July, 1983  
InfoWorld Report Card Dec., 1983  
Reprinted with permission from InfoWorld.

## STYLE

(continued)

help you get words on paper, but the words, and the way they're used are your responsibility.

Punctuation & Style by Oasis Systems, 2765 Reynard Way, San Diego, CA 92103 \$125.00 list, available at dealers and through mail order.

Grammatik by Wang Electronic Publishing, \$75.00 list, available at dealers or through Digital Marketing, 1 (800)-826-2222. Also available as part of Digital's Writer's Pack™ which also includes Random House Proofreader, and Pro/Tem's Footnote, Pair and Bibliography, \$295.00 list. □

# Available at last!

## International subscriptions

to **PROFILES Magazine** are now available through your dealer. Please send inquiries to:

**Kaypro International**  
P.O. Box N  
Del Mar, CA 92014

Canadian subscribers should also contact the above address for information.

**Gold-Writer  
Word-Processor  
Included**



### Letter Listing

- 9 credit letters
- 4 marketing letters
- 13 customer relations letters
- 8 employee letters
- 12 contracting products letters
- 6 follow up letters
- 9 sales letters
- 4 media letters
- 7 collection letters
- 2 sympathy letters
- 9 services letters
- 4 procurement letters
- 21 other business letters!

To order by mail, write to:

**Data Base Industries**  
330 W. Felicita Avenue • Suite D-6  
Escondido, CA 92025 • (619) 480-9616

**SOON TO BE RELEASED**  
**101 Business Contracts and More!**  
(Dealer inquiries invited)

## 101 Business Letters

Ready to Use... On Disk...

**FINALLY...**

- Increase Office Productivity
- Save time
- Keep Business correspondence up to date
- Improve company image
- Speed up collections
- Increase mailing response
- Respond promptly to all customer and prospect queries
- Promote new business
- Keep in touch with clients and vendors

Your complete 101 Gold Letters software package includes a 5¼" or 8" diskette, Gold-Writer word processor, a binder containing hard copy versions of all 101 letters by category, and instructions for using the Gold Letters and Gold-Writer.

Price for entire package **\$159.00**

(Manual Only) **\$39.95**

Available in IBM, Apple, TRS-80, MS/DOS, CP/M, and most computers.

Add \$5.00 shipping & handling costs.

**ORDER GOLD LETTERS TODAY!**

FOR IMMEDIATE DELIVERY CALL

**800-922-5555**



Yes, send me \_\_\_\_\_ copies of Gold Letters for \$159 each.  
Enclosed is \$ \_\_\_\_\_  
Name \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_  
City/State/Zip \_\_\_\_\_  
Telephone \_\_\_\_\_  
Visa/MC # \_\_\_\_\_  
Exp. \_\_\_\_\_ Type of Comp. \_\_\_\_\_

# Three on Perfect Writer

*A review of two books for beginners, and one for advanced users.*

by Anne Wayman-Blick

If you've visited a book store lately, you're well aware the publishing industry has recognized that people interested in microcomputers are hungry for information. The result is a plethora of how-to books about hardware and software, each promising to make its subject as simple and reliable as using a telephone. As might be expected, some of these offerings are well done, accurate and helpful and some are not.

We suggest you keep the following in mind before you spend another \$15 or \$20.

- ▶ Have you thoroughly explored the manual that came with your hardware or software? There's no point in buying a third party book if the manual will work for you instead.
- ▶ Does the book you're considering address Kaypro computers directly? If it doesn't it may not have as much value for you as one that does.
- ▶ Does the Table of Contents indicate the book is well structured, taking you from the sim-

ple to the complex?

- ▶ Check the information about the author—does the writer seem qualified to handle the subject?

Finally, does it have an index? If not, with few exceptions, it's probably not worth buying. Make sure the index seems to reference the instructions or explanations you need. If it does, read through a few of these before you buy to make sure you understand the author's style and the information given.

If the book in question fits all or most of these categories, you probably won't feel your money is wasted when you get home and use it.

## **Perfect Guide to Perfect Writer by Donna Z. Meilach**

If you're new to Perfect Writer and find the manual obtuse, this may be the book for you. Meilach assumes the reader knows little about computers and word processing; in fact she cautions the reader about not expecting too much too soon.

The first three chapters are devoted to an overview of CP/M,

making back up copies, installing the software, booting, naming files, and other basic information usually left to manuals. The balance of the first section deals with creating, saving and simple editing of short documents using Perfect Writer. Again, the treatment is basic, from explaining the movement of the cursor space by space, through larger moves such as paragraph by paragraph. Some of Perfect Writer's unique features, such as switching between upper and lower case and working with windows and buffers are lucidly explained.

Part II deals with formatting and printing. Although the section is brief, examples and graphics combine to give a good, basic understanding of how to get a document on paper. By the time you work your way through the first 166 pages, you'll be able to turn out simple documents. If your word processing needs are limited to basic business letters and short reports, you may be able to stop here.

The next hundred pages are devoted to more sophisticated use concerning items like type-  
*(continued)*

face commands, page numbering, document design, headings and footnotes, handling of long documents and @STYLE commands. As an introduction to advanced use, Meilach presents accurate information without much depth. Again, depth may not be necessary, depending on your use. Writers of articles for consumer publications and trade books without extensive formatting problems will find this section sufficient.

The final chapter in the book is a guide to Perfect Speller. Because Perfect Speller's dictionary is created by listing word roots and allowing prefixes and suffixes, it has a potential for inaccuracy that is not addressed in Meilach's book. Her description of using the program is far better than the manual's, however.

Six appendices include an expansion of the aforementioned information about CP/M, installation, and a quick guide to CP/M and editing commands, printer configuration and previewing documents. If you're having trouble configuring your printer, this section may or may not help, depending on your printer—look at it closely before you buy.

If you've solved many of your problems with Perfect Writer this book is not for you. But Meilach's book can go a long way toward making the manual understandable for those who find it confusing.

#### **Perfect Writer Made Perfectly Clear by Elyse Sommer.**

This is another book trying to help both the beginning as well as advanced users. It moves more quickly than Meilach's book however, promising to teach you how to turn out your first document in

less than 30 minutes. It's not a simple first document either. Pre-set tabs are changed, files called up, word-wrap invoked, cursor movement is covered, as is saving, controlling page numbering and formatting and printing a document as it appears on the screen. Indeed, this may be enough information for many casual users.

The text is interspaced with procedures and exercises, aimed at beginning, intermediate and advanced users, set off typographically. This set-up allows you to pick and choose from the information. If you know how to format disks, for instance, you can skip that portion, but it is covered if you need it.

The first section attempts to take you from simple to more complicated word processing tasks. The order of presentation has a certain logic, although the argument could be made that split screen editing should show up before the (excellent) chapter on trouble shooting.

Sommer includes a chapter devoted to housekeeping with CP/M and then concludes the section with Perfect Speller. Although she makes no mention of Speller's potential spelling problems, she does discuss several other spelling programs.

The second section of the book is devoted to Perfect Formatter. As she points out, Formatter is powerful and she handles the complications well. Recognizing that many users will work with standard or default formats, she starts there and gently leads you as far into customizing as you want to go.

A chapter on personal and business correspondence offers hints on the various ways boilerplate can be used with specific examples, including a look at keeping your own resume up-to-date. This approach to specific

applications is left out of manuals and many books, forcing the user to re-invent them when the need arises.

What I like best about this book is the way it's laid out. The format, with examples, tips, and lists set out from nearby text, is extremely helpful. Usually if I get close to the area of interest, I can visually and quickly find the rest.

I was unable to determine if the book will have an index—if it does, it will be a good choice.

#### **Perfectly Serious ... An in-depth look at Perfect Writer by Kristin Farry**

If disk formatting is a technical term and you barely know how to bring up the Perfect Writer Edit menu, skip this book for now. But if you want to push Perfect Writer to its limits, this is probably what you've been looking for.

Farry entered the microcomputer business with an understanding of hardware and software. As her examples show, she not only speaks computereze, but has played with fiber optics and flight control. (Her examples are taken from her own technical work, and make interesting reading for the curious.) Each example does a good job of showing you the results you're trying to achieve. As she says in the introduction, "If you are in this class of 'non-trivial' users, this book can increase your Perfect Writer word processing power tenfold."

Don't let her technical background frighten you though. Her writing style, aimed at the rest of us, is clear and easy to follow.

She takes the view that Perfect Writer is almost a programming language, and proceeds not only to tell you how to make it perform, but why it performs the way it does. The result is you

know roughly why something is working, which lets you experiment with reasonable chance of success.

Farry begins with the "subtleties of Perfect Writer grammar and command uses that are not covered in your user's manual." From her point of view, user defined variables are much more useful than the manual would lead you to believe and her explanations and examples are crystal clear.

Her descriptions of how variable manipulation can be used on Perfect Writer's predefined counters (like page, chapter, section, etc.) gives you real control. By the time you've finished working through the first section you'll have, maybe for the first time ever, a sense of what Perfect Writer's really all about.

Part II deals with specific

applications for serious users. She kicks this off with details about the handling of long documents, including formatting and printing. Footnoting, placement of figures and tables within the text, and the shortcoming of Perfect Writer's automatic note system are discussed, with workable alternatives presented.

Part III deals exclusively with using alternate alphabets. For those who need to use foreign alphabets, this section alone makes the price of the book money well spent.

There's no index, a sad mistake in my opinion, but this book is an exception to the index rule above. The table of contents is clear and detailed, and an extensive List of Examples make it easy to find what you need. □

*Perfect Guide to Perfect Writer*, by Dona Meilach, Howard W. Sams & Co., Inc., 340 pages, paperback, \$16.95, at bookstores now.

*Perfect Writer Made Perfectly Clear*, by Elyse Sommer, Chilton Book Company, 192 pages, paperback, \$12.95, available in late May 1984.

*Perfectly Serious ... An in-depth look at Perfect Writer*, by Kristin Farry, Win-Com, available at some dealers for \$19.95 and by mail order from Box 106, Waynesville, OH 45608, at \$19.95 + \$2.00 postage and handling. Paperback with spiral binding, 192 pages. □

**NEW**

# ADD. MOR TO YOUR KAYPRO®

## STOR.MOR

PORTABLE  
PLATED MEDIA  
2-YEAR WARRANTY  
DELPHI 15 MB HARD  
DISK SYSTEM  
\*Enclosure \*Switching  
Power Supply  
\*SASI Controller \*WINIF Host Adapter  
\*Cables \*CP/M 2.2 Software  
\*Supports most CP/M Computers  
COMPONENTS/KITS AVAILABLE  
15MB SYSTEM ..... \$1999.00

**TWICE.MOR** UPGRADE YOUR II or 4  
to a 4 or 8...twice the storage on  
FLOPPY DISK DRIVES  
\*DSDD Drives (390K) ..... \$225.00  
\*QUAD DENSITY 96TPI (794K) ..... \$279.00

## VU.MOR\*

E-Z VIEW  
COPY STAND  
\*12"x17"ABS PLASTIC  
\*MOUNTS EASILY ON  
FRONT EDGE  
ONLY ..... \$19.95  
\*Also for Chameleon, Compaq, Otrona

**CLIP.MOR** LEXAN C-THRU PAGE HOLDER  
SUPPORTS NOTEBOOKS, BOOKS,  
PAPERS 4"x4"x1 1/2"  
ONLY ..... \$4.95

**STAND.MOR** Solid Oak KAYPRO®  
STAND \* ANGLED FOR E-Z  
VIEWING 20"x14" ..... \$59.95

## PLAY.MOR

ROM GENERATES 23  
GAME CHARACTERS  
\*Patch into PAC MAN,  
LADDER, SPACE  
INVADERS, STAR  
TREK  
\*1 YR WARRANTY  
ROM ..... \$24.95

## ACCENT.MOR

ROM & PATCH FOR WORDSTAR™  
\*DISPLAYS/PRINTS-DIACRITICAL ACCENTS  
\*French \*Spanish \*German æi ouñ  
\*E-Z Installation æi ouñ  
\*1 YR WARRANTY æi ouñ  
\*SUPPORTS PRINTERS æi ouñ  
with Vertical Motion æi ouñ  
Index Control æi ouñ  
ROM ..... \$200.00



! i z \$ ^ & \* ( ) \_ + ~  
1234567890 = -

## BEE.MOR ENTERPRISES

22-182nd Avenue East  
Sumner, WA 98390  
(206) 862-6310  
9-5 Pacific Time

**MC VISA**

Terms: M/C, VISA, COD, Money Order  
Registered Check. Two week delay  
for checks.

Shipping: UPS in Continental US  
P.P. insured Outside US, Prepaid.  
Tax 7.8% for Washington Residents  
Kaypro is a registered Trademark of Kaypro  
Corp., WordStar is a trademark of MicroPro  
PacMan is a trademark of Atari, Ladder  
Yahoo Software, Chameleon by Seequa  
Compaq Computer Corp, Otrona  
Advanced Systems.

	DESCRIPTION	QTY	COST	Total	WT	SHIP
1	STOR.MOR Delphi 15MB Hard Disk		\$1,999.00		12#	\$6
2	TWICE.MOR DSDD 390K Floppy		225.00		4	\$3
3	TWICE.MOR Quad Den. 96TPI 794K		279.00		4	\$3
4	VU.MOR COPY STAND		19.95		3	\$3
5	CLIP.MOR LEXAN PAGE HOLDER		4.95		11	NC with VU.MOR
6	STAND.MOR SOLID OAK STAND		59.95		12	\$6
7	PLAY.MOR GAME ROM		24.95		1	\$2
8	ACCENT.MOR Diacrit. Accent ROM		200.00		1	\$2

Name \_\_\_\_\_ Tele # \_\_\_\_\_ SUB TOTAL \_\_\_\_\_  
Address \_\_\_\_\_ Tax/Shipping \_\_\_\_\_  
City \_\_\_\_\_ ST \_\_\_\_\_ ZIP \_\_\_\_\_ Total \_\_\_\_\_  
☐ Master Ch ☐ VISA \_\_\_\_\_ Expiration Date \_\_\_\_\_

# Printing With Perfect Writer

*Putting your printer's power to work —  
part one of a two-part series.*

by Kristin A. Farry

Ask any software entrepreneur what his worst nightmare is and he'll probably say "keeping up with the printer industry." A recent count revealed more than 160 different models available.

Fortunately, word processors deal with a fairly limited and standard data set (the alphabet) so it's possible to isolate most of the specialized printer drive software from the general word processing tasks such as document layout. Perfect Software, Inc., escaped much of this nightmare by providing a printer configuration program which allows the user to tailor the printer interface portion of Perfect Writer to many different printers. To get people started, configurations for a simple generic printer and some more complex popular printers are also provided.

For those who happen to have one of the predefined printers, setting Perfect Writer up consists of merely telling Perfect Writer which definition to use. Those who have one of the other 150+ printers available have some homework to do. Unfortunately, the users' manual assumes that you know a lot about how printers think or have a clear, well-written printer manual. Since the latter

is virtually non-existent, this is a combination that can lead to some headaches for the new user.

Every cloud has a silver lining, however. The Perfect Writer printer configuration options allow the user a great deal of flexibility and it eventually pays to learn how it works. Even if you have one of the predefined printers, you'll soon find reasons to change these stock device definitions. For example, you might want to print your documents in a 10-character per inch (CPI) pitch and your programs in a 17 CPI pitch. You can insert command strings in your printer definition to switch your printer from 17 CPI to 10 CPI at the beginning of a document, and back to 17 CPI at the end. Or you may find a

## **Pieces of the puzzle...**

First, let's look at how the pieces of Perfect Writer work together. The word processor consists of three somewhat independent programs—PW (Perfect Writer's editor program), PF (Perfect Formatter), and PP (Perfect Printer). PW, the editor handles the entry of the manuscript and formatting commands into the .MSS manuscript file.

Perfect Formatter chops the text in the .MSS file into lines and pages, sets up pageheadings or footings, and arranges the footnotes and table of contents. These things depend on your paper and printer's character size, as well as your stated preferences for margins, indentations, etc. If the formatted output is heading for PP,

---

*You will find it worthwhile to consider  
the customization possibilities.*

---

printer definition for envelopes or odd sized paper useful. You may also want to control the spacing between sentences, substitute some characters for others, or put accents over characters.

PF also places flags in the text wherever special printer control codes are required (i.e. between words, at line and page breaks, and where boldface and italics are specified).

Perfect Printer simply dumps the contents of the .FIN file to the

printer, adjusting word spacing for right justification and replacing Perfect Formatter's flags with the appropriate printer control codes, which depend on your printer's design. This division of labor between Perfect Formatter and Perfect Printer explains why commands such as boldface and italics are ignored when you bypass Perfect Printer with the quick printoption of Perfect Formatter.

Perfect Software placed nearly all command specifications that depend on your printer's physical properties, as well as document layout parameters that depend on individual tastes, in a data file separate from PF and PP so that you would not have to change the word-processing programs themselves to alter them. This data file is PF.DAT which is actually a group of tables. One table contains style defaults governing document layout. Sixteen other tables (one for each printer defined) contain information on printer idiosyncracies. A few additional tables are included to handle particularly awkward printer interfacing problems—proportional character pitches and non-standard character codes. If a printer definition uses a proportional character pitch instead of a fixed pitch, Perfect Printer will use a character width table in PF.DAT to compute word spacing for right justification. A few printers do not use standard character codes; if so, Perfect Printer must consult a translation table (also in PF.DAT) to convert the character codes it uses into those used by such a printer. PF.DAT also has a two entry table telling Perfect Formatter what the default printer and console definitions are.

You can change any entry in these tables with the program PFCOMFIG.COM, which is on the Perfect Writer installation disk

provided with your Kaypro.

### Running PFCOMFIG

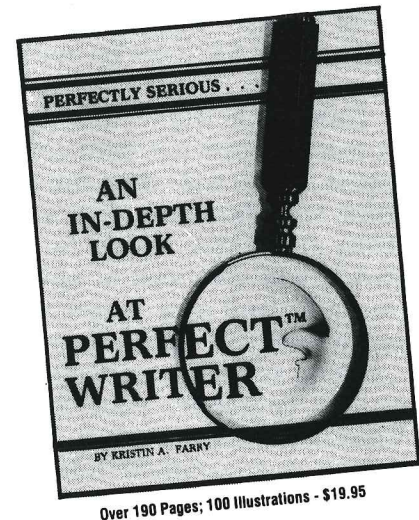
PFCOMFIG is very easy to run, as it is a totally menu-driven, fill-in-the-blanks program. There are two potential tripwires, however, that you should be aware of before you start.

First, the version number of PFCOMFIG must match that of the PF.DAT file being altered (and the PF.DAT version must match that of the PF and PP versions used), because Perfect Software has made some changes in the structure of PF.DAT since Perfect Writer was first introduced. This is not a subtle thing—PFCOMFIG will tell you if the versions are inconsistent. This will not be a problem if you stick to the software that came with your computer; if you do decide to update to a later version, make sure you get a complete Perfect Writer set.

Second, PFCOMFIG modifies the PF.DAT file on the *currently logged* drive or user area. More than one new user has run PFCOMFIG many times without seeing any changes simply because PFCOMFIG was changing the PF.DAT file on the installation disk, not the PF.DAT being used by PF on his working disk! If you have the space on your PW working disk, copy PFCOMFIG onto it—it will save a lot of disk shuffling. If you are using a Kaypro 2, you won't have enough space on the PW edit disk to do this. Instead, put your PW edit disk containing the PF.DAT file to be altered in drive A, and put the installation disk with PFCOMFIG into drive B. Then, run PFCOMFIG while logged onto drive A. To help you avoid the latter pitfall, the first question PFCOMFIG will ask is "Do you wish to exit and change disks?"

(continued)

## New Wrinkles Perfect Software Didn't Mention About Using Perfect Writer



- How to put foreign characters or scientific symbols in your document.
- How to put an accent mark over a character.
- How to subdivide large manuscript files for ease of handling.
- How to control chapter, appendix and section numbers.
- How to number your preface or table of contents with roman numerals.
- How to stretch endspace for your table of contents and references.
- How to automate your figure or table numbering.
- How to eliminate difficulty with footnote positioning.

All of these problems and dozens of others are now answered. **Perfectly Serious: An In-Depth Look At Perfect Writer™** by Kristin A. Farry is an indispensable, applications-oriented supplement to your Perfect Writer User's Manual. Over 190 pages of informative text and real-life time saving examples help the Perfect Writer user through day-to-day word processing hassles.

Send \$19.95, plus \$2.00 shipping and handling (add \$5.00 per copy for shipping outside continental U.S.)

Ohio residents add 5½% Sales Tax

**WIN-COM PUBLICATIONS**

P.O. Box 106  
Waynesville, Ohio 45068

Perfect Writer™ is a trademark of Perfect Software, Inc.

If your program is in B, a "yes" answer here will send you back to CP/M. A "no" answer will send you to the PFCONFIG master menu.

This article will focus on master menu option 2 (Define printer types). Part II will cover options 4 (Edit translation tables) and 5 (Edit character width tables). Part II will also look at option 1 (Input/Output port usage); in the meantime, you can ignore option 1 as long as you are using the CP/M LST device for your printer. Option 3 (Select Perfect Writer default style parameters) is left as an exercise for you, since it is quite easy to use; it enables you to change entries in the default document layout table—things like margins, note position, spacing between paragraphs, etc. (The not-so-ambitious will be relieved to find out that most of the layout defaults can be overridden with a @STYLE directive in the .MSS file.) Note that any style setting affects your document no matter what printer definition you use.

### **Predefined Printers**

Selecting master menu option 2 gives you the printer definition menu. A logical first step is listing the currently defined printers. There are sixteen predefined printer devices. Some explanation of these can be found in Appendix A of your manual (pages A-27 through A-30 of the older manuals; pages 292 through 294 of the newer ones). Pay particular attention to the descriptions of the vanilla device; it is the designated default on your master disk as configured by Perfect Software.

Some of these printer definitions are identical except for the character pitch—for example, Diablo 10, 12, and PS definitions are all intended for the same

physical Diablo-type printer, but each initializes the printer to a different character pitch. The same is true of the multiple Spinwriter and Centronics definitions.

It's quite likely you won't find your printer on this list. Don't give up yet, however. While there is very little standardization among dot-matrix printers, quite a few letter quality printers are either completely or partially Diablo compatible. Check your printer manual carefully—if it is Diablo compatible, the manual will usually say so in the introduction. Some partially compatible models compromise on proportional space modes, so Diablo 10 or 12 might work, but not Diablo PS. Also, some may differ on synchronization protocol. Some Spinwriter owners (models 5515, 5525, 7715, and 7725) may be surprised to find their printer thinks it's a Diablo and prefers the Diablo definitions to those provided for Spinwriters.

To decide if one of the predefined definitions matches your printer, create an .MSS file and try formatting and printing it for several different definitions with the "send output to device other than default" option of Perfect

### **Changing the default devices**

When changing the default devices, PFCONFIG will first list the current defaults for both console and printer output. Until you are more familiar with the configuration process, you will probably want to leave the console default as "console." Note that, when PFCONFIG asks for the new defaults, *you must type something in for each output specification, even if you don't want to change the current default.* If you type in only a carriage return, the corresponding entry in PF.DAT will be left blank and PF and PP hang up searching for a device with no name.

### **For the not-so-lucky**

Even if you can run your printer with one of the provided definitions, you will find it worthwhile to consider the customization possibilities. There are 24 parts to the printer definition. Changing one of these parts is as simple as typing in the corresponding number and following the instructions that appear.

Those who have to develop a completely new printer definition should consider two approaches to the configuration process. The

---

*Printer manuals (with only a few exceptions) are unbelievably unfriendly.*

---

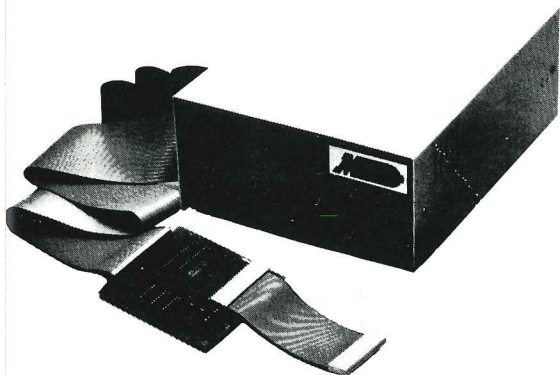
Formatter.

Two definitions or devices on the list—console and file—actually have nothing to do with your printer. "Console" is defined for the console output option of Perfect Formatter, while the file device creates a file containing your formatted document that can be read by programs other than Perfect Printer.

first is modifying an existing definition (such as the vanilla device) with menu option 3 (Update an existing printer definition). The second is starting from scratch with menu option 2 (Define a new printer type). The first approach is recommended for your initial experimentation since you can deal with one piece of the spec at  
*(continued on page 74)*

# MEGA-BYTE SPECIALIZING IN HARD DISKS AND SOFTWARE

**MD-10 11 MEGABYTE (FORMATTED) 5 1/4" HARD DISK Including POWER! \$1995**



For this low price, your Winchester will be delivered completely assembled and tested, with Ampex drive, controller, case, power supply, cabling, interface and the best disk controller software on the market.

- Three interfaces available: Z-80 direct, IBM PC/PC compatible card, and S100 card.
- Software drivers require only 2K of RAM (competition requires as much as 6K).
- Network system available which can support 64 mixed types of computers (both IBM [PC DOS] and Z-80 [CP/M] on same network) from single or multiple hard disks.
- Password protected files capability.
- Can read 64K files in less than 4 seconds.
- Larger systems available:
 

MD-20 with 22.5 mb formatted	\$2895
MD-44 with 45 mb formatted	\$3995
- Streaming tape backup units available which will back up 20 mb in less than 5 minutes and will interface with any SASI/SCSI compatible hard disk:
 

20 mb streamer	\$1795
45/60 mb streamer	\$1995.
- Backup on floppy disks is simple with the special software provided.
- Will interface with IBM-PC, most IBM compatibles, any Z-80 computer (KPRO, CCS, Apple [CP/M], Osborne, Zenith/Heath, Northstar, Godbout, Xerox, Z-80/S100, ALSPA, Super Brain, TRS-80 Mod II, Cromemco, Morrow, and many more).
- Double density modification will be available allowing you later to increase the capability of an MD-10 to about 20 mb, and MD-20 to 40, etc.
- IBM interface includes clock with time/date stamping on files.
- Full **One-Year Warranty** on parts and labor.

## POWER!

Check out InfoWorld's Rave review of Power (Nov. 8/82)

## 55 UTILITIES IN ONE PACKAGE

...The super program that puts YOU in control

POWER! automatically numbers disk files. Just pick file number to Copy, Erase, Reclaim, Rename, Type, etc.

Your computer feeds the file names automatically. You do no typing! No typing error ever! YOU DON'T NEED SYSTEM DISK IN ANY DRIVE! No more BDOS ERRORS!

55 prompted user-friendly functions for housekeeping and a 120 page easy-read users' guide make POWER! your most often used software. You'll use it every day!

Now, POWER! also includes a special program that lets you lock sensitive files, so that only you can access them. Without the secret PASS-WORD which you can create and change at will, no prying eyes will ever know your secret file even exists.

## AT LAST A RATIONAL APPROACH TO SELECTING AN ACCOUNTING SYSTEM



### YOUR BUSINESS IS TOO IMPORTANT TO MAKE A GRAVE ACCOUNTING MISTAKE!

At \$1,249 as a total computerized accounting package, the Star System 1 has the reputation of being one of the friendliest, most comprehensive systems designed for businesses under \$5 million.

Now this total system is available as the Accounting Partner for both Z-80 and IBM PC compatible computers. Here is the best part -- the new low price for the total accounting system is \$395.

### STILL NOT CONVINCED? TAKE US UP ON OUR SINGULAR OFFER!

Order the STAR demo.

This extensive version of STAR ACCOUNTING PARTNER includes diskettes chuck full of General Ledger, Accounts Receivable, and Payroll modules. All for \$29.95. Later when you're convinced and order the total system, the \$29.95 will naturally apply.

### ORDER NOW with check, M/C, or VISA.

Accounting Partner \_\_\_\_\_ **\$395.00 plus \$9.00 shipping**  
 Accounting Partner Demo \_\_\_\_\_ **\$ 29.95 plus \$2.00 shipping**

# MEGA-BYTE

ORDER Name	Qty.	Price	Total
VISA <input type="checkbox"/> M/C <input type="checkbox"/> COD <input type="checkbox"/> Total Order			
Card # _____	Exp. Date _____	If Utah Tax	
Signature _____			Total Enclosed



TO ORDER OR FOR MORE INFORMATION: (801) 257-7033 or mail to MEGA-BYTE INC. RT. 3 Box 35, Tremonton, Utah 84337

TERMS: Cashiers Check, VISA, M/C or COD. Shipping charges added to all orders.



NAME \_\_\_\_\_  
 COMPANY \_\_\_\_\_ TITLE \_\_\_\_\_  
 ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_  
 STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
 TEL (    ) \_\_\_\_\_ COMPUTER \_\_\_\_\_

CP/M is a registered trademark of Digital Research. Z-80 is a trademark of Zilog. MD-10 is a registered trademark of Media Distributing. IBM PC is a trademark of International Business Machines Corp.

a time. Even though your vanilla configuration may require extensive modifications, it provides a working baseline to build upon bit by bit.

The nice thing about starting from scratch with a new definition is that you can give it an easy-to-remember name. (Otherwise, you may find yourself staring at the PF menu wondering "Did I redefine Plain for the 12 pitch or was it Epson?") If you decide to go this route (perhaps after experimenting a bit with modes of an existing definition), note that PF.DAT can hold *only* 16 printer definitions. You must delete one of the existing ones, using printer menu option 4 (Delete a printer definition), *before* you can add a new one with option 2.

Before you attempt any printer definition modifications, however, you have to get acquainted with your printer.

### **You thought software manuals were bad...**

Your first discovery will be that printer manuals (with only a few exceptions) are unbelievably unfriendly. Perseverance pays off eventually, however. Hiding somewhere amid the interface specifications, data protocols, and DIP switch settings are two key tables or sets of tables. The first of these is simply a listing of your printer's entire character set or sets, indexed according to the code number that activates each one.

The character code set used by 99.9% of all printers is ASCII (American Standard Code for Information Interchange). The codes range from 0 to 127, where 31 through 126 correspond to "printing" characters (capital and lower case alphabet, digits 0 to 9, and some miscellaneous symbols) and the rest are control

characters (carriage return, tab, etc.). Chances are, unfortunately, that the manual lists these codes in hexadecimal form. Unless you need PW's character translation or width tables, however, you don't have to convert them to decimal, since you can type in the appropriate characters from the keyboard. For the initial printer configuration work, you'll be most concerned with the ASCII control codes below 27. These are entered by typing CTRL and the code's corresponding letter simultaneously. The letter corresponding to ASCII 1 is A, ASCII 2 is B, and so on to Z. Thus, a carriage return is CTRL-M, backspace is CTRL-H.

The second set of tables to look for (probably entitled "Function Codes" or "Control Codes") explains how your printer responds to each control code. This is not as straight forward as

with your printer's capabilities and escape codes is to return to CP/M and toggle your printer on with a CTRL-P. Type an escape sequence out and hit return, then list a short file to the printer to see the command's effects.

### **Defining a new printer**

Now you have the essentials for survival. Remember, if you opt to create a new printer definition from scratch, you must first delete an existing definition to make room for it. Select option 2 (Define a new printer type) to begin. PFCFIG will ask for a name for the new device and then bombard you with questions. Early Perfect Writer manuals do not bother to tell you what these questions are; later manuals provide a listing without explanation. The following will fill in some of the gaps in both. (We

## *The resulting .FIN file can be displayed on your CRT or sent to your printer from CP/M.*

it seems. Some printers do not recognize backspace, or respond to a carriage return code with a return and a linefeed. To make matters more confusing, an individual printer's response may vary with the position of hardware DIP switches.

The ESCape code (ASCII 27) is frequently used as a flag to tell the printer to interpret the ASCII code that follows it as a character pitch change, typestyle conversion, or complex carriage movement command. For example, the sequence ESC-P may signal the printer to convert to pica pitch, while ESC-A turns on its boldfacing mode. Unfortunately, these escape sequences are not standardized at all.

One way to acquaint yourself

*suggest you bring up PFCFIG as you read this.—ed.)*

The first 2 questions refer to the size of the paper. You can make a different printer definition for each paper size you use. Alternatively, you can specify your most commonly used paper size here and use @STYLE commands to change it for specific documents in the .MSS file. Note that this is the *only* printer definition spec that can be overridden by a @STYLE command.

Question 3 asks you to define the width of a standard character. In fixed pitch definitions, PF uses this entry to figure line breaks. If you specify a character width table, this number is used whenever a measurement is

*(continued)*

# MICROPRO IS IN ... AND WE'RE READY!

**AVAILABLE NOW!**

**Wordstar® and Friends for the Kaypro® 2 & 4: Second Edition \$21.95**

**PeopleTalk Guide to the Kaypro® 10 \$24.95**

**Featuring MICROPRO® and Perfect® softwares**

**NEW!**

**Free Software Handbook: 1984-85 CP/M® Edition \$17.95**

**PeopleTalk Guide to the Seequa Chameleon® \$21.95**

**ANNOUNCING!**

Supercharge your Kaypro®  
with

**SMARTKEY® II - \$89.95**

Allows you to enter any command,  
word, or even page with one or  
two keystrokes!

**40,000 copies sold!  
STILL AVAILABLE ...  
WHILE THEY LAST!**

Perfect Manual for the Kaypro® 2  
Perfect Manual for the Kaypro® 4

**SPECIAL PRICE: \$17.95**

**YOU'LL LOVE THIS!**

The new  
**PEOPLETALK QUARTERLY**

Answers to questions, hints,  
tricks, reviews, discounts.

**SEND FOR YOUR FREE SAMPLE ISSUE!**

**SEE YOUR KAYPRO® DEALER TODAY!**

Or order direct from

**PeopleTalk Associates Inc.**

P.O. Box 863652 - Plano, TX 75086  
214/423-4634

Include \$2.00 for handling and shipping.

## PFCONFIG (continued)

given in characters, as in @Style commands. Since many such commands are translated into spaces (i.e. margin setting, indentation, etc.), this should actually be the width of a space.

Next, in question 4, you're asked to name the height of a single-spaced line. PF uses this entry to place page breaks.

The smallest horizontal and vertical resolution or movement is addressed in questions 5 & 6. This information is used for microspaced right justification and sub-/superscripts if your printer is one of those that PP has microspacing or microfeed information on (specified in item 11). If your printer is not one of these, enter the same numbers here that you used for questions 3 and 4.

Question 7 asks if you're using proportional spacing. This is not required for fixed pitch definitions; enter no and stay tuned for Part II for more information.

You can produce either files that are readable online, or files in a special, intermediate format, depending on how you answer question 9. If this entry is no, PF assumes the finished file will be read only by PP. As mentioned earlier, PF separates words, lines, fonts, etc., with special flags which alert PP to the need for printer-specific command strings. These flags are codes outside the regular ASCII set and would cause chaos on your CRT or printer if dumped directly to them. To protect you from this, the .FIN files made for PP have an end-of-file marker inserted

between the header (the file name and device specification) and the text. If you try to type one of these .FIN files while in CP/M, you will get only the header.

If PF finds a yes answer to this question, it does not put these flags or the device specification/end of file in the .FIN file. It also ignores all underline, font change, and script commands. The resulting .FIN file can be displayed on your CRT or sent to your printer from CP/M. It can also be examined with the PW editor, which is a very convenient way to proofread a file and see where the page breaks occur without printing it.

If you opt for "online readable" .FIN files, PFCFIG will stop the configuration questionnaire at this point, since PF doesn't use the printer-specific information in items 10 through 24. If you convert an existing definition to online-readable output, PFCFIG will erase items 10 through 24. This can be a traumatic discovery if you have worked long and hard getting those items just right. The only way to get them back is to change the online-readable option to no; PFCFIG will then ask you for each item just as in the original configuration process. Consequently, you'll want a separate printer definition for generating a proofreading file. Before you create your own, take a look at the definition named *file* provided by Perfect Software. It's set up to produce online-readable output on 8-1/2" by 11" pages with 10 characters per inch. Try adapting its page size and character pitch to match that of your favorite printer definition.

Question 10 allows you to specify the distance beyond the last page boundary after printing. Since the paper bail on most printers is some distance from the actual print head, being able to specify an offset is nice. Sup-



A unique blend of familiar productivity tools with dynamic new ones:

- ☐ **Outline Processing** lets you organize your ideas in a familiar outline form.
- ☐ **Information Retrieval** keeps your thoughts at your fingertips with astonishing speed.
- ☐ **Word Processing** fills out the structure of your ideas with text.
- ☐ **Telecommunications** lets you set up a structured, electronic bulletin board.
- ☐ **Programming Environment** lets you get under the hood and extend your horizons.

It all adds up to **awesome Knowledge Processing power**. Your chance to join the next wave of the integrated software revolution.

Available for CP/M, Z80 systems. Special introductory offer: \$147. Send now for your **free** copy of *The KAMAS Report*.



**COMPUSOPHIC  
SYSTEMS**

Dept. 101 • 2525 SW 224th Ave  
Aloha, Oregon 97006 • (503) 649-3765

KAMAS is a trademark of Compusophic Systems. CP/M is a registered trademark of Digital Research, Inc. Z80 is a registered trademark of Zilog, Inc.

posedly, the top margin will be reduced by the distance specified here. Keep in mind that the top margin is initially set at only 1/2 inch. If you don't use pageheadings, it may appear larger, because the headerspacing is also 1/2 inch. PP will not encroach on the headerspacing no matter how large an offset is specified. Furthermore, if you have told PP that your printer responds to a formfeed (question 14), you will find that the offset specification is useless unless the printer's top of form position is always set on the paper perforations at the print head, *not* even with the paper bail (which would be much more convenient). You will get more predictable behavior if you zero the offset and adjust your margins to accommodate the paper offset (i.e. reduce the top margin and increase the bottom margin by the offset amount).

The fractional line and character movement of certain printers are supported by Perfect Writer. Item 11 lists these printers, and asks you to enter its number. As long as you remain in a fixed pitch, you can get by with choice 1. Other choices are not essential for survival.

Backspacing and carriage returns are addressed in questions 12 and 13. Perfect Printer uses the answers for underlining. If you answer no to both of these questions, PP will not be able to reverse your printer and will ignore underlining commands. If 12 is yes and 13 is no, PP uses a string of backspaces to move the print head backwards to the underline starting point. If 12 is no and 13 is yes, it uses a carriage return to put the head back at the beginning of the line and then spaces forward to the underline starting point. If both questions are answered affirmatively, PP tries to be efficient and uses back-

spaces to reach underlines occurring in the latter half of the line and the carriage return for those in the first half. Many printers backspace rather laboriously and it may be faster to use the carriage return for all underlining, even if your printer can backspace.

The 14th question deals with advancing the paper to the top of the next page or form. If answered no, PP just sends a string of new line commands to position each new page for printing. This may be slower than a form feed, but the offset specification (item 10) will work correctly.

The need for a synchronous protocol is addressed in 15. This entry tells PP how to feed your printer. Typically, computers are much faster than printers; the

printer may need a synchronization protocol to notify the computer when its buffer is full and when it is ready for another batch of characters. Parallel printers do this by changing the voltage on a control wire in their cable which can disable the interface and hence require no software assistance. Serial printers do not always have the luxury of extra control wires in the interface to use for this purpose. Instead, they send control characters to the computer over their data lines to start and stop the transmission. The X-ON/X-OFF characters (often designated DC1 and DC3 in manuals) are most commonly used for this. A few printers use ETX and ACK instead. Some use either pro-

(continued)

## XtraKey

...a powerful, easy-to-use utility for word workers, databasers, calc-ers, programmers... anyone looking for increased productivity!

- Turns **any key** on your keyboard into an active function key... press a defined key and get complete words, sentences, control codes, even full pages of text... **anytime!**
- Exclusive **built-in screen dump** feature creates instant hardcopy of **current screen display** on your printer... **anytime!**
- Direct numeric keypad and cursor key redefinition... makes word processing a breeze with one-touch deletions and cursor movement by words or sentences, etc.! Repeats, too!
- XShift feature lets you define up to **seven** special "shift" keys for even more function keys... over 2000 possible combinations without losing any keyboard keys.
- XtraKey comes complete with key sets for many popular micro programs... create your own custom key sets quickly with **easy-to-use** configuration program!
- XtraKey is packed with **even more features**... variable strings, program pause, screen clear, printer on, auto file loads, program chaining, etc.

\*Features apply to Kaypro 11/4 only. Kaypro 10 available soon.

Now, press just one key to get "DISPLAY FILES ON B: LIKE \*.\*", "DIR B:", "pip b:=a:\*[ov]", ctrl-K...E- or whatever you want (any combination of characters from 00H to FFH)! **XtraKey will be your most frequently used utility!**

-XtraKey for Kaypro 11/4 CP/M 2.2 with screen dump... \$39.95

-Universal XtraKey for CP/M 2.2 (no screen dump)... \$35.95

Send check or money order plus \$2.00 shipping (California residents add 6% sales tax) to:

Xpert Software, 8865 Pollard Avenue, San Diego, CA 92123  
(619) 268-0112

## Xpert Software

# YOU'LL NEVER HAVE POWER PROBLEMS AGAIN.

Introducing the GAMMA Power System I D.C. Uninterruptible Power Supply from GAMMA RESEARCH, Inc. of Southern California. With the GAMMA Power System I you will never experience the "crash" due to transients, surges, spikes, sags, brown-outs or blackouts ever again.

- Complete under/over voltage protection.
- Minimum one hour of reserve capacity power.
- Fully portable; weighs under 10 pounds.
- Reduces internal heat up to 70%.
- Operates and charges from any 12 volt power source.
- Supports Kaypro II, IV and 10.

12 month limited warranty.

See your computer dealer or contact us directly. Dealer inquiries invited.

**GAMMA RESEARCH**  
6253 Hollywood Blvd. #1129  
Los Angeles, CA 90028

**(213) 463-2345**

## **PFCONFIG** (continued)

tol, depending on a DIP switch setting. Check the serial interface section of your manual to sort this out.

The need for special translation of the character set for certain proportional printers is handled in item 16. This is also a non-essential for most printers.

### **Control Codes Miscellanea**

Questions 18 through 24 require the entry of control codes and escape sequences found in your printer manual. To enter some control codes, you may have to type CTRL then the desired code. Control codes will appear as ^ followed by their corresponding letter. (For instance, CTRL-M will be ^M). It is not necessary to use CTRL-Q to enter Escape. It will appear on your CRT as [.

Items 18 and 19 address the initialization and reset strings. The initialization string should set the printer's horizontal pitch to match the character width specified in question 3 and, if necessary, the number of lines per inch to match the linefeed distance set in question 4. Your dot-matrix printer might have a correspondence quality mode you want to use for word processing. If so, add the mode entry command to the printer initialization string and the mode exit command to the reset string. And so on.

Some smart printers require an additional mode change—conversion from a logic-seeking, bidirectional print mode to an incremental, unidirectional mode. In their logic-seeking mode, these printers attempt to clean up blocks of text as they are received to improve printing efficiency and speed before printing. Sometimes their efforts conflict with Perfect Printer's idea of how a printer should work. Also, the printer may ignore certain control characters (such as back-

space) in the logic-seeking mode. The result may be messed up right-justification and misplaced underlines. Unfortunately, the incremental or verbatim modes (in which the printer types characters in the exact order received) is slow, since it is unidirectional.

The way your printer handles carriage returns and linefeeds is addressed in item 20. Before answering this question, check the DIP switch specification in your printer manual—the switch settings may alter your printer's response to a carriage return.

The ability to turn on and off boldface and italics without affecting character width is the subject of items 21, 22, and 23. The @Boldface and @Italics commands are typestyle or font changers. Their usage need not be restricted to boldfacing or italicizing text, however. PP doesn't care what the boldface or italics command strings in PF.DAT are; it simply copies them to the printer whenever it encounters a @B or @I flag in the .FIN file. You can specify any combination of control codes or escape sequences for these. Keep in mind, however, that PP assumes that the characters in these command strings do not result in a net horizontal movement of the printer's head; if they do, the right justification will be messed up.

Many printers have some exotic fonts (double-wide, half-high, compressed, etc.) that may seem at first glance to be excellent candidates for italicized text. Unfortunately, the right justification will be messed up whenever the printer switches into a font in which character widths differ from that baseline definition in item 3.

One very useful @Italics command application is printing sub- or super-scripts. Unless your

printer is one of those few that Perfect Printer has fractional linefeed information on (specified in item 11), Perfect Writer's @- or @+ commands place sub- and super-scripts above or below the associated text line. This placement requires extra spacing above or below the line with the sub- or superscript. If this bothers you, try using the italics command to shift the carriage a fraction of a line. Some dot-matrix printers have a sub- or superscript mode; for these, one merely uses the printer's script commands as though they were font-change commands. Printers not so blessed generally have half-linefeed commands that work as well. For example, superscripts require a reverse half-linefeed for the italics on string and a forward half-linefeed for italics off.

On some daisywheel printers,

superscripts or special symbols such as ' can be accessed after a "shift-out" (SO) control character (ASCII 14 or CTRL-N) is sent. These printers return to the normal character set when they receive a "shift-in" (SI) command (ASCII 15 or CTRL-O). For such printers, defining the italics-on string to be SO and the italics-off string to be SI may be useful.

Another use of the @Italics command is to place accent marks over characters. Doing this requires that the printer actually backspace and overstrike the target character with the accent. For this task, try defining your italics-on string as backspace (CTRL-H) and leaving your italics-off string blank. With this configuration, Sen@I(~)or will be printed as Señor. Unfortunately, this will throw your right justification off by two characters every time it is used, but the

advantages of right justification pale beside the effort of inserting those accent marks by hand! You can always turn the right justification off. There are ways of making your printer overstrike characters without ruining your right justification, but the configuration is too involved to explain here. (For more information on this subject, see the book *Perfectly Serious: An In-Depth Look at Perfect Writer*.—AWB)

## Defaults Revisited

Now all you have to do is make your new printer the default and get back to work. But before you leave PFCONFIG, take a look at the console default, the device used as a guide when you use the "send output to console" option on the PF menu. This is a document preview aid. Like the file

(continued)

# NO FANCY BOXES!

Just Fine Quality  
Software At The

LOWEST

PRICES

## WORD PROCESSING

**WRITER'S AIDE** \$39.95  
Utilities to make life with WordStar easier.  
**WORDCOUNT**—Counts words  
**NUMBER**—Line numbering  
**COMBINE**—Links files  
**MATCHUP**—Ensures control characters are paired up  
**CRYPT**—Encrypts/decrypts files using password.  
**WS/ASCII**—Transfers ASCII files to WordStar  
**WORDFREQ**—Avoid overuse of words  
**SPELL** \$49.95  
50,000 words, yet fits on 33K of disk. Very fast. InfoWorld 6-82:  
EGEE

**SUPERDEX** \$49.95  
Indexes the mountain of files you've created with WordStar. Keeps a database reflecting your interests and reports page locations of each. Then prints professional, presentation quality indices. Full screen, in-context display of the entire document. Great for novelists or letter and report writers.  
**AUTODIFF** \$29.95  
Lists differences in files—perfect for determining latest revisions in text, data or source code. Marks the latest revisions with sidebars. Great for determining which revision went wrong.

## PROGRAMMING

**C/80 3.0** \$49.95  
An excellent compiler for the powerful 'C' language. Fastest execution in BYTE 8/83 test. Low cost integer version. Floating point and longs an additional 29.95  
**LISP/80** \$39.95  
The language of Artificial Intelligence. Get in at the new cutting edge.

## FILE TRANSFERS

**UNIFORM** \$59.95  
Latest version. Now transfers from and to the IBM and compatibles! Reads, writes AND formats 23 other disks too. We are holding the line on the price increase, but hurry.

## GAMES

**ELIZA** \$24.95  
The computer psychologist. Eliza talks back to you.  
**WORD WIGGLE** \$29.95  
For the family. Builds vocabulary as you create words from the wiggle. 11 skill levels, 30,000 word dictionary.  
**MYCHESS** \$34.95  
The best playing chess game we've seen on any microcomputer. Winner at the 1980 Computer Chess Championship. Nine skill levels, saves games, can even play against itself!

## HOME

**MEAL.CALC** \$29.95  
Save money, lose weight and eat better. MealCalc stores your recipes, adjusts servings and calories. Prints a week's menus and shopping list.  
100 recipes—\$9.95  
**BUCKS** \$29.95  
Helps you create a budget. And keep it. Spending is automatically subtracted from monthly goals. Keep multiple checkbooks, any number of accounts. Complete statement for any month/year at any time.

**PROFILES READERS' SPECIAL**  
**TURBO PASCAL**  
INCREDIBLY GOOD! The BEST compiler/editor we've ever seen. Jumps to the editor when it finds an error. Super fast and compact. Save on Shipping Charges. **\$49.95**

Send check or money order  
Add 2.00 postage & handling

SPITE Software, Dept. MP1  
13531 SE Foster Place  
Portland, OR 97236  
503-761-3809 503-224-0137

**SPITE**  
SOFTWARE



Writer's Aide, SuperDex, Meal.Calc and Bucks are <sup>TM</sup> of Spite Software; Turbo Pascal is <sup>TM</sup> of Borland International; Uniform is <sup>TM</sup> of Micro Solutions; Spell, Autodiff, Mychess, Space Pirates are <sup>TM</sup> of The Software Toolworks

## PFCONFIG

(continued)

definition, this definition is set up for online-readable output. As it comes from the factory, however, the console definition chops your document into CRT-sized pages (8 by 4 inches) of 10 pitch lines. This may be convenient for finding typos but does not tell you where your final page breaks will be. You can change the papersize and character width to match that of the printer definition you wish to preview, even specifying a character width table for proportional pitches. Formatting to console will then show the line and page breaks as they will appear in the printed document.

Note that changing the console definition does nothing magical to your CRT. It holds only 80 characters per line, spaced 10 perinch, no matter what you do with the console definition. This means that the elite or propor-

tional pitch lines are longer than they would be on paper and their ends will often be wrapped to the next line. In spite of this, your line and page breaks will be accurately portrayed.

Alternatively, you can forget the console definition and assign a printer definition to the console output default. You don't gain much more than convenience from this, since Perfect Formatter ignores the features in items 10 through 24 of the printer definitions.

### The final step

Now, copy the finalized PF.DAT to another disk and put the copy away with your software masters . . . disks have been known to fail (usually the night before your report is due). You don't want to have to do this over! ☐

## About back issues

Back issues of *PROFILES* are available while supplies last at the cost of \$3.00 each, which includes postage and handling.

Please note—we are **SOLD OUT** of the July/August, September/October and November/December 1983, and January/February 1984 issues. Only March/April 1984 and the current issue are available, and are selling fast.

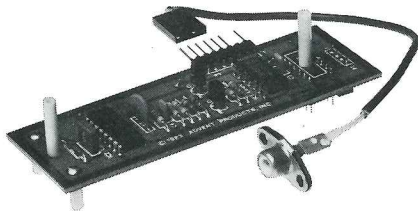
Send your name and address to our Editorial Offices, 533 Stevens Avenue, Solana Beach, CA 92075, Attention: Back Issues. Enclose a check or money order made payable to Kaypro Corporation. No cash, please. As with our subscriptions, we cannot accept telephone requests. You need not be an owner to request back issues. Allow 2–4 weeks for delivery. ☐

## THE KAYPRO STORE...

Shirts, buttons, pens, jackets, and many more items will soon be available to you through your local Kaypro Dealer. Stop by and ask to see the current collection of Kaypro collectibles!

COMING SOON!

# MAXIMIZE YOUR KAYPRO®-FORMANCE



## EXTERNAL MONITOR ADAPTORS

(For all Kaypro Computers)

The External Monitor Adaptor provides the ability for the Kaypro 2 or 4 to drive an external video monitor. The EMA will work with large screen projection TVs. Installation requires no soldering or wiring; it just plugs in. Complete illustrated instructions are included.

EMA for Kaypro 2 or 4 ..... \$69.95

EMA for new Kaypro 4 or Robie\* ..... \$99.95

EMA for Kaypro 10\* ..... \$109.95

\*These EMA's require the 12" Advent Monitor available in Amber or Green ..... \$189.95

## DISK DRIVE TEST SYSTEM

The Disk Drive Test System is designed to check disk drives for proper alignment and performance and is a valuable tool for end-users and service personnel. A menu driven program performs drive quality, read/write and seek tests then displays and prints test results. Fast, easy, no tools or other equipment required. Includes manual, software and certified alignment diskette. Disk Drive Test System ..... \$149.95 (Introductory price \$119.95 if ordered prior to September 1, 1984)

## ENHANCED CHARACTER SET

The Enhanced Character Set is designed for use with the new Kaypro 4, 10 or Robie computers and provides the user with improved character display. The ECS features increased space between displayed lines, easier to read characters, elimination of 'hot spots' in characters and decreased eye strain. Easy installation.

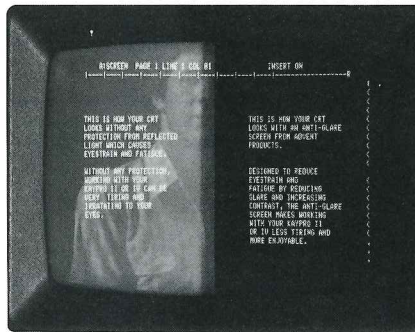
Enhanced Character Set ..... \$49.95



## 12ft KEYBOARD CABLE

This 12ft Keyboard Cable is manufactured specifically to replace the 6ft cable supplied with your Kaypro computer. It allows additional flexibility in placing the keyboard and computer.

12ft Keyboard Cable ..... \$12.95

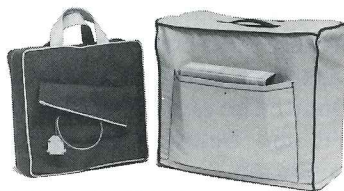


## ANTI-GLARE SCREEN

Unretouched photo.

Designed to reduce eyestrain by increasing contrast and reducing glare. Contoured to fit exactly, the Anti-Glare Screen offers an undistorted view of the entire CRT. Installation requires no disassembly or tools. It attaches directly to the CRT. A treated wipe to clean your CRT before attachment is included. Available in either Smoke or Green.

Anti-Glare Screen ..... \$24.95



## KAYPRO COVERS

Beautiful yet rugged, these covers protect your investment. They are made from durable weather-resistant Sunbrella. Complete with two pockets for carrying your manuals, diskettes, etc.

Kaypro Cover ..... \$34.95

## PRINTER CARRYING CASES

Make your printer as portable as your Kaypro with a custom fitted carrying case. Each case has an inside and outside pocket to carry paper, or other necessities. Carrying straps loop under the printer providing full support. Makes carrying your printer both easier and safer.

Available for: Gemini OKIDATA Panasonic  
Epson Silver Reed BMC  
Brother Comex Prowriter  
Printer Carrying Case ..... \$42.95 each

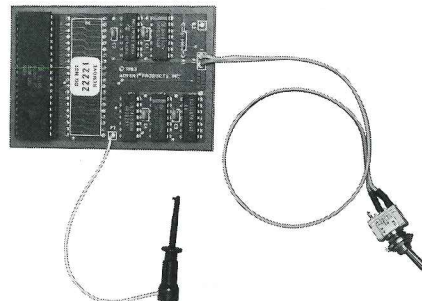
## UNIFORM

Allows your Kaypro to read and write 45 different computer formats, including CP/M-80, CP/M-86, MS-DOS, PC-DOS, CDOS, LDOS, and TRSDOS.

Uniform ..... \$69.95

## DEALER INQUIRIES WELCOME.

All items are warranted for 90 days. Money cheerfully refunded if not completely satisfied.



## 5 MHz TURBOBOARD

The TurboBoard provides the ability for your Kaypro 2 or 4 to compute at twice the speed of a standard Kaypro. The speed is switch selectable (normal or turbocharged), and it can be changed at any time without affecting the operation of the computer. Installation of the TurboBoard requires only minimal technical ability and no soldering is required. Complete illustrated instructions are included.

TurboBoard ..... \$99.95

## PRINTER CABLES

High quality RS-232 and Centronics cables designed to work with your particular printer and the Kaypro computer. Available for all Kaypro computers.

Available for:

Gemini  
Epson  
Brother  
OKIDATA  
Silver Reed  
RS-232  
Serial

Comex  
Panasonic  
BMC  
Prowriter

Centronix  
Parallel



6ft - \$17.95  
12ft - \$22.95

6ft - \$19.95  
10ft - \$24.95

## GENERAL PURPOSE MODEM CABLES

RS-232 cables configured for most modems used with the Kaypro computer.

2ft - \$11.95

4ft - \$14.95

**CALL TODAY National: 1-800-821-8778  
California: 1-800-521-7182**

VISA and MasterCard are welcome. Please add \$1.50 for C.O.D. UPS surface freight paid on all orders. California residents please add 6% sales tax.



**advent  
products, inc.**

965 North Main Street  
Orange, CA 92667-9990  
(714) 997-0800

Kaypro is a registered trademark of Kaypro Corporation.  
MS-DOS is a registered trademark of MicroSoft.  
PC-DOS is a registered trademark of IBM Corp.  
TRSDOS is a registered trademark of Tandy Corp.  
CP/M is a registered trademark of Digital Research.

# S-BASIC

## Data Files—Part II

*The series continues with an introduction to sequential access.*

by Tyler Sperry

**F**our months ago, the first article in this series introduced the subject of data files. The plan had been to cover sequential access to data in part II, and random access in part III. Given the nature of the subject (and the space available), this article will introduce some uses of sequential files and the READ statement and leave some topics like the FILES and WRITE statements until the third installment.

*To put on my editor's cap for a moment, this article is a good example of why PROFILES does not have a column devoted to S-BASIC: adequate coverage at the introductory level requires too much space. By the time we have covered data files in this series, at least four issues will have gone by. The alternative we prefer for the magazine is running articles on different aspects of the language. Thus, next issue will have an article (written by someone else!) on the topic of S-BASIC functions and recursion as well as the next installment of this series. Eventually, this series and other articles will be collected in the yearbook mentioned elsewhere. —TS*

### **Our story thus far . . .**

In the first part of this series we

discussed the topic of data files and the conventions of CP/M. To recap briefly, data files are simply collections of data on disk. While these files are often differentiated as either binary or text files, the nature of the information stored in a data file is left to the creator; it is not uncommon to have binary files that contain portions of text as well. There is a convention that text files contain only ASCII characters and use a CTRL-Z to indicate the end of the file, but as we'll see below, this is only a convention.

In contrast with the text files created by programs like Perfect Writer and CP/M's ED, the files generated in the normal use of WordStar are not limited to the 7-bit ASCII characters. The text files created in WordStar's document mode use the eighth bit of some bytes to control formatting. This can lead to interesting results if you have one of the newer Kaypro models with graphics capability and try to look at a WordStar document file by TYPEing it. It just so happens that the Kaypro interprets that set eighth bit as a command to display a graphics character. The resulting display is interesting, but not all that useful. And it gives us an excuse to play with the S-BASIC program called View on the opposite page.

Given the surprising display of

graphics characters mixed with text, if we were to rewrite CP/M's TYPE command, one of the first improvements to ask for would be the ignoring or "stripping" of these troublesome high-order bits. The View program is a simple example of such a "filter" program that uses a file for character input, strips off the eighth bit (if set,) and then displays the result on the CRT.

Once compiled, using View is easy. At the CP/M prompt simply enter View followed by the name of the file you want to look at:

```
A>VIEW MYSTERY.LTR
```

As with TYPE, you can stop the display from scrolling by pressing CTRL-S. (Unlike TYPE, it will require another CTRL-S to start the scrolling again.)

### **How it works**

As (briefly) described in the S-BASIC manual, channel number 9 is reserved for input from the Default File Control Block. If you aren't familiar with the term FCB, don't worry. All you have to know as an S-BASIC programmer is that when a user enters two words at the CP/M prompt, if the second word is a valid filename, S-BASIC will automatically connect that file to your program through channel 9.

*(Continued)*

---

```
REM
REM    VIEW program == Version 0.2
REM
REM    Example of Channel 9 usage.
REM

VAR input.byte, output.byte, EOF = BYTE
EOF = 1AH
INPUT#9; input.byte

WHILE input.byte <> EOF DO
    BEGIN
        IF input.byte < 80H THEN output.byte = input.byte
        ELSE output.byte = input.byte - 80H
        PRINT output.byte;
        INPUT #9; input.byte
    END
END of VIEW program
```

---

```
REM
REM    Example of DATA statement usage.
REM

VAR i, j = INTEGER
VAR s = STRING

RESTORE
FOR i = 1 TO 7
    READ j
    PRINT j
NEXT i

RESTORE 0second
PRINT "SECOND SERIES:"
FOR i = 1 to 5
    READ j
    PRINT j
NEXT i
READ s
PRINT s

0first DATA 11, 12, 13, 14, 15
0second DATA 21, 22, 23, 24, 25
0third DATA "End of data, and program."
END
```

Channel 9 input is the simplest possible example of using a sequential data file. In the View program, the WHILE loop simply grabs one character after another from our file, and passes them on (after a little processing) to the display. This is the essence of sequential files: you start at the beginning of the file and get one piece of information after another until you reach the end of the file.

While View processes the data file in single bytes because it needs to filter things one character at a time, you can use sequential input for strings and numbers too. In fact, one of the first experiments to perform on View is to change the program to handle strings as input. Once you've done that, it is a simple matter to keep a count of the number of lines you have displayed and pause when the screen is full. By waiting for a response from the operator after displaying twenty lines or so, you can make View more user friendly and stop the mad rush for CTRL-S on long files.

### **When the party's over**

There is a problem with sequential files that is highlighted every now and then with View. Sequential access means starting at the beginning and continuing on until the end. Unfortunately, CP/M is a trifle awkward to work with

when it comes to recognizing the end of a text file. View handles the average text file without any problem; whenever it sees a CTRL-Z in a file (1A hex or "EOF" in the program) it simply stops execution and returns to CP/M.

The surprise comes when you have a file that is exactly 128 characters long, or a multiple of that length. Due to the way CP/M handles disk sectors, text files that end exactly on a sector boundary will not have the CTRL-Z appended to the end. While some word processors are careful to always add that CTRL-Z, CP/M, WordStar, and quite a few other programs don't feel obliged to. When you run into one of these text files with View, you will get an error message at the end of the display instead of a clean exit. If you were writing View as a product to sell, you would probably want to add an ON ERROR statement to gracefully exit in that event.

### **READING DATA statements**

It would be nice if one could generalize about S-BASIC and say that you get data from files with a READ statement and data from other places with an INPUT statement, but as you've seen above it's not that simple. Channel 9 provides a loophole for input from disk files, while the time honored DATA statement allows you to

READ data included in your program.

I hesitated to touch on the subject of DATA statements in writing this article; there had already been too many delays in getting to the fun subjects of READING and WRITEing. Still, my friend the editor kept pointing at the letters we had gotten from folks having difficulties with the subject, so I wrote the second demo program shown.

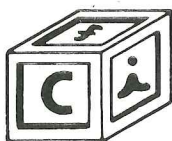
For those experienced in BASIC, this program should hold no real surprises. Some integers and a string are stored and then read. What could be simpler? Well, the problems people were reporting will only appear if you start tinkering with this program. There are two rules and a bug to be explored here.

**RULE:** Always RESTORE your data before attempting to use it.

The S-BASIC compiler is a single-pass compiler, and as it goes through your program looking for syntax errors and other goodies, it stuffs your data into memory using a pointer. Alas, when it finishes with your DATA statements, it doesn't change the pointer to indicate the beginning of the DATA area. Initializing the data pointer is done with the RESTORE statement. You can verify this by removing one or both of the RESTORE statements and watching what happens. Note that you can RESTORE the pointer by using labels on your data. This information is in the manual, but easy to overlook.

**RULE:** Keep all your DATA statements together.

The pointer S-BASIC uses in compiling the DATA statements is used with other statements as well. As a result, you cannot break up your DATA statements with anything other than a blank line. Even a simple REMark state-



**Family  
COMPUTING, INC.**

119 N. El Camino Real  
Encinitas, CA 92024  
(619) 942-8419

Dealer inquiries invited  
\$2.00 shipping • VISA/MC  
\*Source code available

### **PRINTSETTER — \$19.95**

Control fonts, pitch, etc. • Use typewriter mode for quick labels and envelopes • Define up to 22 printers with 10 functions each

### **FAST FILER — \$39.95**

Electronic note pad • Store names, dates, etc. • 24-character key • In-memory substring key search • Scans 1,000 records in 15 sec.

### **FCI INVENTORY — \$79.95**

Rapid record retrieval • 30 categories per disk • Reports value, mtd & ytd activity, counting sheets and single records • All menu driven

ment will screw things up. (Don't take my word for it, try it on the example.)

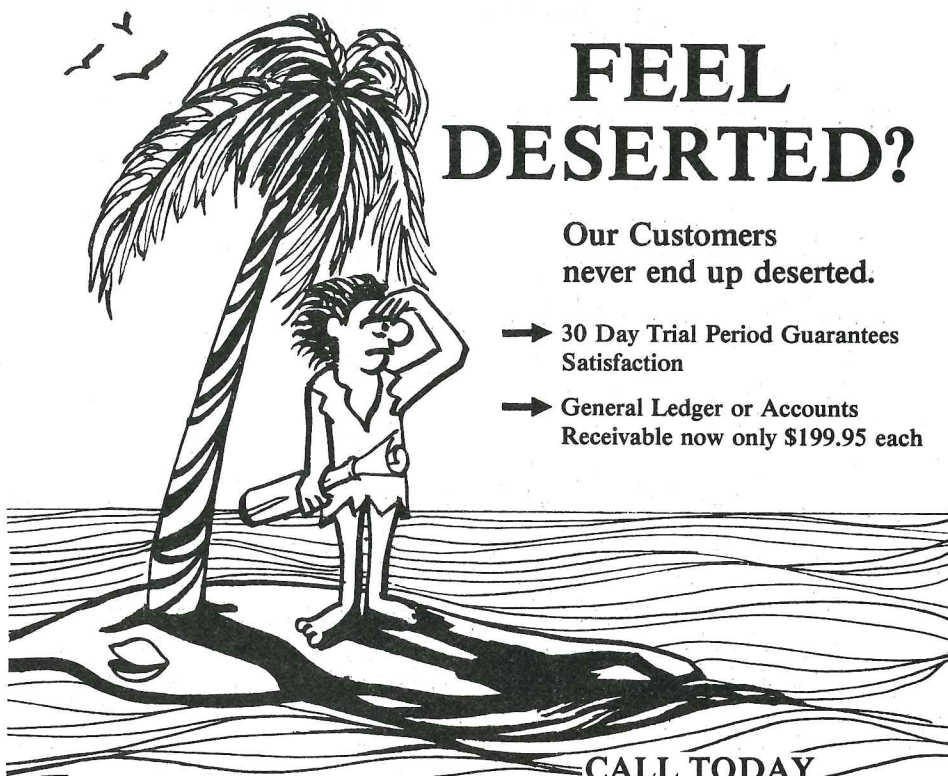
**BUG:** The comma is a little overzealous in its role as a string delimiter. In the example program, you would expect the string printed on the screen to read "End of data, and program." Unfortunately, S-BASIC stops processing each item in a DATA statement as it runs into a comma, and in the example only "End of data" will be printed.

### Summary

Even with the detour into DATA statements, you should now have a good feel for the behavior of sequential files. After all, the major difference between the blocks of data used in the two examples is where the data was stored. In both cases the normal operation is starting at the beginning and then grabbing one piece of information after another.

READING from a block of DATA statements does offer one advantage over sequential files: you can move your data pointer around at will. Indeed, if you were to use numeric labels for your DATA statements and keep all your information in records that were one line long, why, you'd be able to move about almost at random. But then, as I've said before, that's a subject for the next installment.

□



## FEEL DESERTED?

**Our Customers  
never end up deserted.**

- 30 Day Trial Period Guarantees Satisfaction
- General Ledger or Accounts Receivable now only \$199.95 each



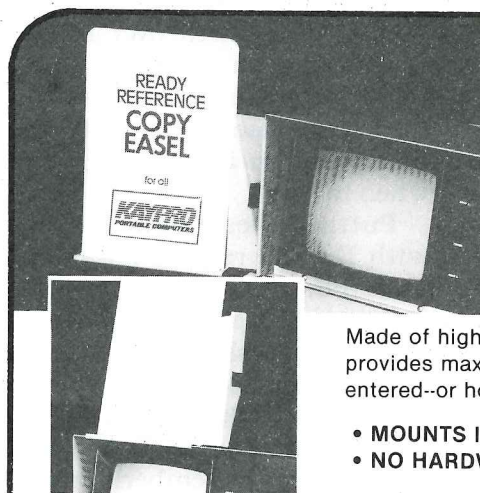
**RELIABLE  
SOFTWARE,  
INC.**

**CALL TODAY**

1-800-327-6593 US

1-800-432-6929 FL

P.O. Box 1589, Apopka, FL 32704  
VISA OR MASTERCARD ACCEPTED



**IMPROVE SPEED,  
EFFICIENCY  
& ACCURACY WITH  
CMB Enterprises'**

**COPY EASEL**  
for the KAYPRO series

only **\$29.95**

Made of high-impact 3/16" KYDEX, this copy easel provides maximum visibility to the material being entered--or holds extra floppy disks.

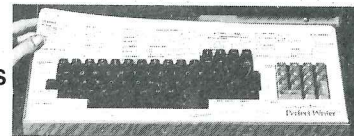
- MOUNTS IN SECONDS ON SIDE OR TOP
- NO HARDWARE OR DRILLING REQUIRED

### KEYBOARD OVERLAYS\* FOR THE KAYPRO SERIES

Provides all the codes for Perfect Writer, Perfect Filer & Perfect Calc.

- NO NEED FOR CLUMSY REFERENCE CARDS
- HANDY TWO PIECE SET MADE OF DURABLE 7 MIL PLASTIC
- BOTH OVERLAYS CAN STORE ON THE KEYBOARD WHEN THE KAYPRO CASE IS CLOSED

\*Microsoft Basic & CPM overlays available soon



two piece set **\$29.95**

**SPECIAL COMBINATION OFFER**  
Order both the Copy Easel & the  
Keyboard Overlays and SAVE. A \$59.90 value  
both for only  
**\$52.00**

All prices include postage & handling  
order from  
**CMB Enterprises, Inc.**  
1571 Fenpark Drive  
Fenton, Missouri 63026  
Dealer inquiries invited  
(314) 343-5757

# Technical forum

Conducted by Tyler Sperry

**T**his issue we're going to take a respite from the subject of Perfect software, and deal instead with disks and programming languages. There is, after all, a limit to the space we can justify using for topics like printing documents to the screen. Those who want more information on Perfect Writer should check out Kristin Farry's article on printer configuration.

## Welcome aboard

This issue also sees the debut of David Gerrold's column covering hardware, software, etc. Among the *et ceteras*, he mentions some brightly colored diskettes that refused to format, and thereby hangs a tale.

When I first read David's report of difficulties with his red and orange diskettes, my immediate suspicion was the quality of the media. After all, we have all heard of problems with using "off" brands, and it seemed clear that some colors had gotten a bad batch of media or been damaged somehow. The report of the disks working fine with an IBM PC was puzzling, though. I finally consulted my usual source on these confusing technical matters, but the *I Ching* refused comment.

The explanation offered by the company involved—that some drives use infrared LEDs that can shine through the brightly colored (and translucent) jackets—was certainly inventive. Indeed, there have been cases in the past where IR sensors have shone right through a paper write-protect tab and let people zap data on supposedly "safe" disks. Still, the explanation wasn't convincing.

Part of the problem with the explanation is that the disks were

failing to *format*, and the write-protect notch should be uncovered for that operation. (Some format programs are more virile than others, and will format a diskette regardless of whether or not you have put a tab over the notch.) A translucent diskette jacket shouldn't be a concern in a format operation.

The other hole in a diskette jacket is used for the index pulse; once per disk revolution a hole in the diskette lines up with this hole in the jacket and tells your Kaypro that a track is beginning. This is used for two purposes. First, since the index sensor is off center, it provides a means of checking that you have inserted your diskette with the proper side up; flip the diskette over and the holes no longer are aligned with the drive's index sensor. Second, the index pulse is used by the format program as a mark to tell when to start.

Putting these facts together with David's report, I was still puzzled. A translucent disk jacket should, at worst, allow you to format a disk either right side up or upside down. The explanation from the company just didn't seem to make sense. Then thinking it over I remembered something I had heard from Jim Nickerson in Kaypro's engineering department, and I decided to try an experiment.

## The naked disk

From the logic above, it is clear that a jacket isn't really necessary for the formatting process. This can be verified by taking a diskette, carefully opening the jacket, putting the mylar disk into the your drive, and running the format program. (Actually,

considering the cost of diskettes, you might want to just take my word for it.) When I did this, there were a few bad sectors due to the diskette, ah, flopping around, but nothing like the catastrophic failure David had reported. I returned to my original judgment on the infrared story: poppycock. He must have gotten some disks with marginal media that only a tolerant IBM would accept. End of story.

Until COMDEX.

At the April COMDEX, I met and talked with David and his friend Pat Lajko. David had just gotten some more samples of red diskettes, and so we grabbed a machine at the Kaypro booth for another formatting test. No go. And unlike the bad sectors I had expected to see, these disks stopped the format program in its tracks. (So to speak.) Put in a red disk, tell the machine to format it, and nothing. No error reports, no action of any kind.

I had to admit I was stumped. I had proved on my K10 at home that a diskette didn't need a jacket to be formatted, and we had proved on a demonstrator K10 at the show that there was a problem not related to the quality of the media. Hmmm...

As this issue goes to press, Pat Lajko has taken some of the orange and red diskettes into the laboratory. I have a terrible record in forecasting the contents for future issues, but I would bet that next issue David will have the solution to this mystery.

## Pascal topics

Moving on to languages, but staying in the role of fearless forecaster, I predict that next issue will also include a review of

Turbo Pascal. This \$49 product has seemed too good to be true, and we'll see if it measures up to the advertisements.

Pascal was used last issue in an example program in Dave Thompson's column. R. M. Metcalf wrote in to point out an error in the listing. It seems that the example concluded a repeat loop with:

```
until good.value=true;
```

Now, as all good programmers know, a repeat loop should end with a comparison, not an assignment statement. The program as printed will cause problems for compilers until you remove the colon thusly:

```
until good.value=true;
```

And, indeed, the better style would be to simply use the Boolean nature of the variable:

```
until good.value;
```

All these points are well taken,

and it is unfortunate that our Pascal editor was off playing with a new compiler when it came time to proofread Dave's column. As a policy, we try to verify the operation of programs before we print them. (No attempt was made to verify the operation of the fragments in Dave's column because the intent was to show what different languages look like, not to offer a runnable program.)

Along that line of reasoning, we will print corrections as we learn of them. In the case of the example assembly language program a few months back, the correction consisted of letting people know it was OK to ignore an error message from ASM.

### Speaking of S-BASIC

One of my favorite ways to forestall requests for debugging aid is

to use very small programs. The smaller the program, the easier it is to understand. With that in mind, this column closes with a short program that answers a question from Kent Smith from Garland, Utah. Mr. Smith was curious to find a way of making the cursor stop blinking on his Kaypro 10.

The program below should help those who, like myself, can't stand a blinking cursor. The program works by poking a new value into a cursor register of the 6545 CRT Controller used in the K10 and 1984 versions of the K2 and K4.

```
REM Stop the cursor
REM from blinking
```

```
OUT 28, 10
OUT 29, 0
END
```

□

## NOW, BAR CODE TECHNOLOGY CAN BE YOURS EASILY AND INEXPENSIVELY WITH LABELMATE.

Department of Defense contractor? Meet DOD **LOGMARS** bar code specifications simply and economically with LabelMate I from Symbology Systems, Inc.

Labelmate I is a state-of-the-art software package and decoder module programmed to produce bar code labels in compliance with DOD **LOGMARS** specifications. LabelMate I utilizes a Kaypro II microcomputer with an Epson printer.

- Requires no computer knowledge to operate
- Installation requires no tools or wiring
- Merely plugs into your Kaypro II and is ready to produce labels immediately
- Output can be verified with handy scanner wand

If you are a DOD contractor, you need LabelMate.



Inquire at your Kaypro dealer, or contact:

**SYMBOLIZED SYSTEMS, INC.**



3231 W. MacARTHUR BLVD.  
SANTA ANA, CA 92704

Or Call Toll-Free:

800-854-3278

800-432-3191 (In California)

**DEALER INQUIRIES INVITED**

NEWSSTAND



A Publication of CW Communications/Inc.

[illegible]

--	--	--	--

Name \_\_\_\_\_

(Title)

(Company name)

### Address

City

State

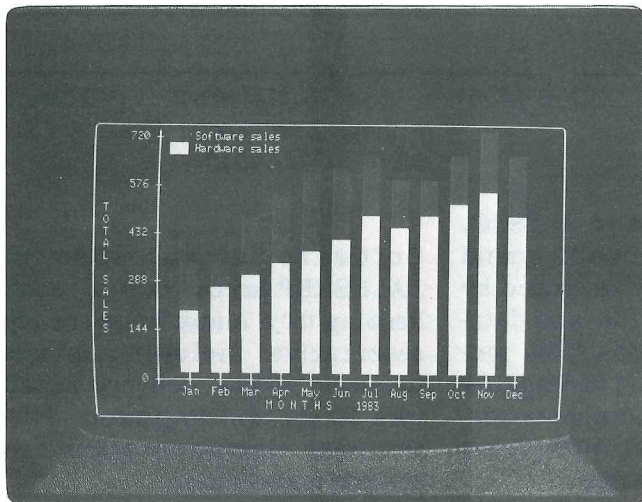
Zip

☐ Check here if you do not wish to receive promotional mail.

Address shown is ☐ Business ☐ Home.

134

# ProGRAPHICS PUTS THE PRO IN KAYPRO®



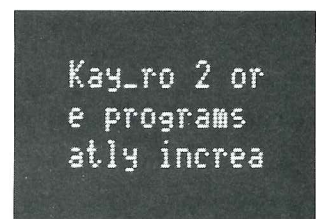
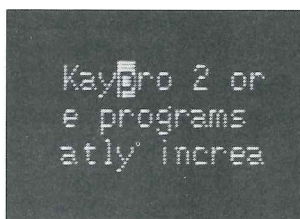
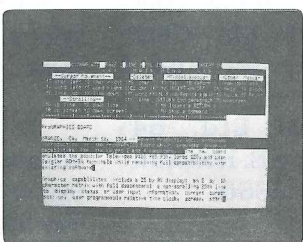
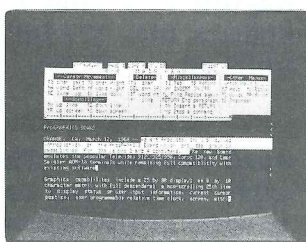
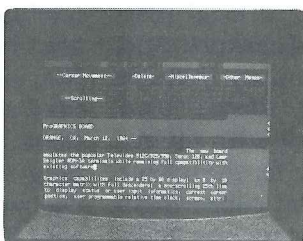
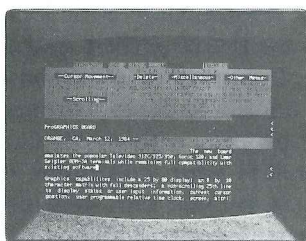
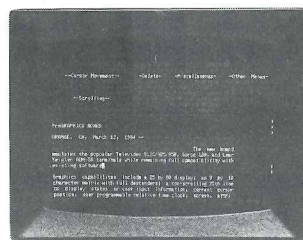
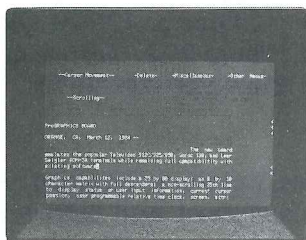
You can now have true graphics capabilities for your Kaypro 2 or 4. In addition, you'll have many of the video attributes that make working with your Kaypro more enjoyable. ProGRAPHICS emulates the popular Televideo 925/950 terminal while retaining full compatibility with existing software. Installation requires only a screwdriver and a pair of pliers. No soldering or other modifications are required. Here are just some of ProGRAPHICS' capabilities:

- 25 x 80 display
- 8 x 10 character matrix with full character descenders
- non-scrolling 25th status line showing:
  - user input information, OR
  - current cursor position
  - user programmable relative time clock
  - screen attribute on/off status indicator
  - graphics mode enable/disable indicator
  - key click on/off indicator
- both thin line and block graphics (160 x 50 resolution)
- user selectable character and screen attribute including:
  - reverse video
  - half intensity
  - normal
- real software selectable cursor, including your choice of:
  - block
  - underline
  - blinking (fast or slow)
  - non-blinking
  - invisible

In addition, ProGRAPHICS gives you these other features:

- an overlay program allowing Wordstar to use the new video attributes, and other features, making it much easier and faster to use.
- built-in EMA for connection to an external video monitor.
- increased processing speed with ProGRAPHICS System installed.
- the ability for your Kaypro to display video data many times faster than stock allowing it to work properly well beyond 1200 baud in telecommunications and terminal modes.
- fast, snow free scrolling.
- complete with all necessary hardware and software.

**ProGRAPHICS SYSTEM ..... \$299.00**  
Warranted for 90 days. Money cheerfully refunded if not completely satisfied.



Character Comparison:

## ADVENT ProGRAPHICS VIDEO

- Fully Formed Characters
- True Character Descenders
- True Cursor
- Improved Aspect Ratio

## KAYPRO STANDARD VIDEO

- Squashed Lower Case Characters
- Simulated Cursor

**CALL TODAY**  
**National: 1-800-821-8778 California: 1-800-521-7182**

Visa and MasterCard are welcome. Please add \$1.50 for C.O.D. UPS surface freight paid on all orders. California residents please add 6% sales tax.

**DEALER INQUIRIES WELCOME.**

Kaypro is a registered trademark of Kaypro Corporation. WORDSTAR is a registered trademark of MicroPro International Corporation.



**advent  
products, inc.**

965 North Main Street, Orange, CA 92667 • (714) 997-0800

# New products

*The following new product listings are not reviews, and should not be considered as tested endorsements. We have looked at some of the products, but we do not necessarily have hands-on experience with them.*

## **Terminal translation and keyboard redefinition software.**

Talisman lets you reprogram any key to accept definitions up to 249 characters, and works either while you're in the middle of another program or with the use of the program's built-in editor. Talisman is also a terminal translator, letting your computer emulate a mainframe or mini computer, as well as enabling you to interchange software between other CP/M-80 micros as long as the disk format is correct.

\$125. Kaypro 2, 4 and 10. Disco-Tech, P.O. Box 1659, Santa Rosa, CA 95402 (707) 523-1600.

**EPROM Programmer.** The Programmer 4+, a single board unit that can handle all 1 to 16K EPROMs, will test, read, and program EPROMs, plus save to and read from disk in ASCII, hex or object code. It will also convert small EPROMs to larger ones, and vice versa. Users must supply power transformer (24VAC C.T. 1 AMP). Programmer 4+ comes complete with manual, schematic, and software (including source code).

\$199.95. Kaypro 2, 4 and 10. Periphco, 1659 Scott Blvd., Suite

1, Santa Clara, CA 95050 (408) 244-5214.

## **Business-oriented BASIC.**

Applications BASIC, built around the business BASIC developed by the Basic Four, has file- and data-handling capabilities, plus programming aids and debugging tools. Complete documentation, tutorial and support utilities are included in the package.

\$395. Kaypro 2, 4 and 10. Soft Gold, Inc., 3857 Birch St., Suite 466, Newport Beach, CA 92660 (714) 476-3004.

**Hawaiian database.** InfoBase Hawaii, Ltd. has developed an information source about Hawaii, which is pertinent to local residents, tourists, educators and businesses. The topics include shopping, dining, travel, and entertainment, along with micro-computing tutorials for the novice and expert. Potential subscribers can review files, and receive background information on-line before buying. Subscribers pay a one-time membership fee and a monthly charge.

InfoBase Hawaii, Ltd., 641 Keeaumoku St., Suite B, Honolulu, HI 96814 (808) 944-2886.

## **Telecommunications program.**

Big-G modem software is a low cost self-documenting program that handles 300 or 1200 baud and will upload and download files.

\$34.95. Kaypro 2. Big-G Enterprises, 2514 Saint Frances St., Akron, OH 44313.

## **Software for salespeople.**

SALESREP keeps track of record keeping for a manufacturer's representative, including quotes, invoices, orders, delivery schedules, RFQs, and shipments. Price includes documentation and custom installation.

\$39.95. Kaypro 10. The Sierra Management Group, 13909 Old Harbor Ln., Suite 202, Marina del Rey, CA 90292 (213) 827-2575.

**Local area network hookup.** A new interface card and software package makes your Kaypro an intelligent workstation on a local area network (LAN) called Alspa-Net, which provides electronic mail and access to other workstations, peripherals, and more. One plug connects your computer to the network, so you can still use your Kaypro as a stand-alone unit.

\$595. Kaypro 2, 4, and 10. Alspa Computers, Inc., 477 Division St., Campbell, CA 95008.

**Hebrew word processor.** The Hebrew Kaypro Kit lets you use WordStar to write in the Hebrew language, without affecting its English word processing capabilities. A Hebrew/English printwheel for Brother and Diablo printers is also available. The kit includes Hebrew WordStar diskette and manual, modified char-

## NEW PRODUCTS

(continued)

acter and monitor chips, and Hebrew keypad letters.

The company has also announced that an Arabic version will be available soon.

The Hebrew Kit is compatible with the WordStar that comes with the Kaypro, or you may purchase WordStar for an extra \$210. The price for the kit is \$690. The printwheels cost an additional \$69 for the Diablo and \$79 for the Brother. Return air shipping cost is included. Any U.S. customs, duties, taxes and charges will be paid by purchaser. Make check or money order payable to Softworx. Allow 4 to 6 weeks for delivery.

Kaypro 2 and 4. Business Automation, P.O. Box 39514, Ramat Aviv, 61394, Israel.

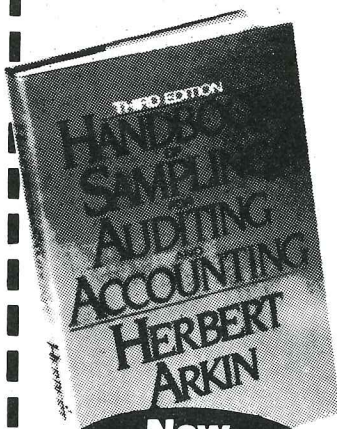
**Ad agency software.** Designed for smaller advertising agencies (under \$10 million in sales), this package is primarily for financial operations. Its functions include billing, job costing, cost accounting, accounts payable, payroll and general ledger, tailored to AAAA methods of reporting. Developers provide phone support with purchase.

\$1550. Kaypro 2, 4 and 10. Gabel Advertising, Inc., P.O. Box 2588, Colorado Springs, CO 80901 (303) 636-2361.

**Microcomputing reference journal.** *Microindex Journal* is a guide to all periodicals (journals, magazines and newspapers) that cover any aspect of the microcomputing industry. The publication, which reports on an average of 50 periodicals a month, has a categorized index of feature articles as well as product reviews, including hardware, software, accessories and books. The index lists the author, title, page length, reader level and rating for each entry.

(continued)

## Makes sampling speedier... easier...more accurate!



**New  
THIRD  
Edition!**

Updated and expanded to explain even today's most sophisticated applications and procedures... revised cover to cover for greater ease of use than ever... yet retaining the essential know-how and clarity that have made previous editions so enormously popular. It's the just-published Third Edition of the recognized #1 authority on sampling techniques, and it includes such completely new topics as post-stratification methods • sampling unequal clusters • estimates of a ratio such as the LIFO index • additional allocation methods for stratified samples • and combinations of sampling plans.

As always, this 100% practical time- and work-saver contains no confusing math, no extraneous theory — while an abundance of ready-to-apply tables make formulaic solutions virtually unnecessary in the field. Send for your copy today by checking the box below!

☐ **HANDBOOK OF SAMPLING FOR AUDITING AND ACCOUNTING, 3rd. Ed.,** by Herbert Arkin. (002245-3) \$49.95

☐ **HANDBOOK OF MODERN ACCOUNTING 3rd, Ed.,** edited by S. Davidson and R. Weil. The brand-new edition of the accounting profession's most complete, up-to-date, and widely used problem-solver. "Invaluable... far superior to anything else available" — *New York Times* (015492-9) \$79.95

☐ **SAMPLING METHODS FOR THE AUDITOR: An Advanced Treatment** by H. Arkin. Already well-versed in sampling techniques? Here's how to tackle a full range of those tricky situations for which no hard-and-fast answers exist — from errors to use of audit data in court! (002194-5) \$29.95

☐ **THE HANDBOOK OF ESTATE PLANNING** by R.A. Esperti and R.L. Peterson. You can leave a *bigger* estate to loved ones — at least cost, legally — and *your way!* (019668-0) \$29.95

☐ **WRITING AUDIT REPORTS** by M.C. Bromage. Discover how to produce the strongest possible document for every audit — from choosing the right words to styling and format. (008060-7) \$27.50

☐ **HANDBOOK OF COST ACCOUNTING** by S. Davidson and R.L. Weil. Essential know-how on accumulating and classifying data for accounting systems and for use in managerial designs. (015452-X) \$42.50

☐ **HOW TO REPRESENT YOUR CLIENT BEFORE THE IRS** by B.E. Gates. Inside info on how the IRS works and how to deal with their agents and keep them from throwing the book at your client. (022993-7) \$24.95

☐ **ELEVEN STEPS TO BUILDING A PROFITABLE ACCOUNTING PRACTICE** by Norman S. Rachlin with Laura Cerwinske. Proven techniques to build a small local practice into a large, successful CPA firm. (051103-9) \$29.95

### At your bookstore — or mail entire ad to:

McGraw-Hill Book Company  
Box 400  
Hightstown, NJ 08520

Please send me the book(s) I have checked for 15 days' FREE examination. At the end of that time, I will pay in full, plus local tax, postage, and handling, or return the book(s) postpaid with no further obligation.

Name \_\_\_\_\_

Address \_\_\_\_\_ Apt. \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Offer good only in U.S. Order subject to acceptance by McGraw Hill.

**SAVE MONEY:** Pay in full, plus local tax, with this order and McGraw-Hill pays all regular postage and handling costs. Same refund privilege applies!

03-K4264485-3



## NEW PRODUCTS

(continued)

Several versions of Microindex are available: (1) Microindex—a monthly, especially of interest to large libraries, universities and businesses, \$99/year, \$12/issue; (2) Abridged Microindex—a monthly, for medium-sized libraries, colleges, high schools, academies, computer dealers and small businesses, \$49/year, \$6/issue; and (3) Journal-specific, end-of-volume Microindex—annual, for single journal readers, small libraries, schools, businesses, etc., \$5-\$12/issue.

Other variations covering specific topics, like education and business, will be announced as they become available.

For more information, contact Serious Personal Computing, P.O. Box 7059, South Nashua, NH 03060 (603)888-1376.

**Attractive printer stands.** Made of smoke gray acrylic, Softstart printer stands combine strength with an appealing curved design. The stands, which will hold over 60 pounds, can accommodate either bottom or back feed printers and have non-skid rubber feet to prevent sliding. Two sizes are available: 22" w X 15" l X 5" h and 15" w X 15" l X 4.5" h.

\$45 and \$59.95. Softstart Corporation, 10951 Middleboro Dr., Damascus, MD 20872 (301) 253-6368.

**Pharmaceutical software.** Superior Pharmacy System was written with consultation from pharmacists, and under the guidelines of the American Pharmaceutical Association's publication, *Computers and Phar-*

*macists*. The program handles such tasks as automatic refills, price queries, doctor lists, drug inventory, prescription labels, daily transaction reports, Medicaid forms, and more.

\$1295. Demos with user manuals, \$49. Kaypro 2, 4 and 10. Superior Software Corporation, 202 13th St., Suite 206, Augusta, GA 30901 (404) 722-0831.

**Supply catalog.** Inmac, an independent supplier of computer products, has introduced its new catalog, the Personal Computer Support Catalog, which lists over 2000 items. The free publication offers a 45-day trial period for each product and accepts phone or mail orders. In addition, the full-color, magazine format catalog will be used as a vehicle for a personal computer users' survey.

Inmac, Department 59, 2465 Augustine Dr., Santa Clara, CA 95051 (800) 547-5444 in CA: (800) 547-5447.

**BBS information exchange.** A free on-line information service for computer owners, the On-Line Computer Telephone Directory BBS Information Exchange (OLCTD-BIE), lists over 600 verified free-access Bulletin Board Systems (BBSs) throughout the U.S. and Canada. The BBS is also a question/answer and discussion forum on telecommunications. The 24-hour number is (913) 649-1207 and it can accommodate 300 and 1200 baud.

J.A. Cambron Co., P.O. Box 10005, Kansas City, MO 64111.

**Diskette file.** Unlike other models, the Falcon Diskette File has eight separate closed compartments that each holds about ten 5 1/4" diskettes. This design keeps disks upright to prevent bending and warping, and allows you to get

## BOOKKEEPING SIMPLIFIED



with  
**QUICK CHECK™**

Peter McWilliams said, "If you want to find a simple bookkeeping program that is truly quick to learn and use, then Chuck's program is for you." Manage your money and make paying the bills and tax reporting easy.

Reduced from \$250 to \$49.95 for KAYPRO.

## RETAIL INVENTORY

(Point of Sale) with **QUICK REGISTER™**

Proven in many businesses all over the world. Simply enter the quantity and item as sold. QUICK REGISTER will do inventory control, reports, ordering, receiving, labels, and lists. No sorting! \$250.

DEMO DISK \$10. plus shipping

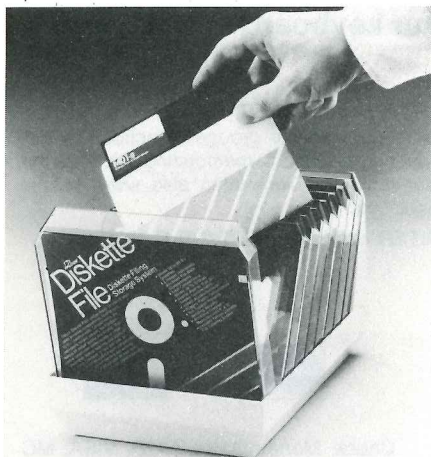
See a demonstration of these programs on your KAYPRO

See your KAYPRO dealer or contact:

**CHUCK ATKINSON PROGRAMS**

Route 5, Box 277-C • Benbrook, Texas 76126 • (817) 249-0166

a disk without exposing the rest of them to dust and debris. Made of plastic, the file has smoke-colored compartments hinged to a neutral-colored base and comes with labels and computer care booklet.



\$24.95. Falcon Safety Products, Inc., Department V, 1065 Bristol Rd., Mountainside, NJ 07092 (201) 233-5000.

**Customized printwheels.** Diablo, Xerox, C.Itoh and Qume daisywheel printer owners can now replace characters on their printwheel so they can print scientific characters, language symbols, technical symbols, letters, or numbers. Printwheel modifications are guaranteed for the life of the original printwheel.

Write for brochure. Business Support Services, Inc., 705 Butternut Ave., Royal Oak, MI 48073.

**Structural analysis software.** Designed for professional engineers, Frame80 performs static structural analysis of plane frame and truss-type structures. It lets you apply eight different types of load conditions to a structure, including point and distributed loads, imposed nodal and assembly misfit displacements, and temperature and acceleration conditions. Com-

puted results are nodal displacements, constraint loads, equivalent nodal loads, and element nodal stresses. The user may print the element and/or assembled structure stiffness matrices and the applied force vectors.

\$595. Kaypro 2, 4 and 10. EMS Company, P.O. Box 1528, Richland, WA 99352.

**Word processing accouterments.** Writers can now give their manuscripts that polished look, as well add some printing and formatting features to their word processor, with three new software programs: MagicPrint, MagicBind, and MagicIndex.

Your copy can have a professionally typeset appearance with MagicPrint and a Diablo 630/1650-compatible daisywheel or NEC Spinwriter printer. Mag-

icPrint does proportional spacing to eliminate disproportionate gaps between words, plus over 60 other features, including multicolumn printing, micro-centering, and automatic footnoting (up to 15 per page). Designed to augment CP/M-based word processing programs, MagicPrint also provides the following print formatting functions: boldfacing, underlining, subscript, superscript, indentation and more. \$195.

A mailing program similar to MicroPro's MailMerge, MagicBind combines all the print functions of MicroPrint with standard form letter and label production. Unique features include automatic chapter/paragraph numbering and data verification, and generation of sequentially numbered lists. \$250.

(continued)

## SOFTWARE FOR KAYPRO

**SBACOUNT:** Accounting for small business. Tracks all income & outgo, prints checks, posts chart of accounts. Prints chart of accounts, trial balance, profit and loss statement, & check ledger. Reconciles and prints reconciliation. Generates an Income & Expense journal for audit purposes. **ONLY \$79.00**

**MBACOUNT:** Accounting for small business. Full general ledger (20 asset, 20 liability, 20 income, 30 expense & 10 capital accounts all user assigned) PLUS all the features of SBACOUNT as above. **ONLY \$89.00**

**PROFBILL:** Automatic bookkeeping & invoicing for Doctors, Lawyers and other professional people who invoice at various hourly rates. Will handle up to nine partners/employees. Prints invoice or saves for future billing. **ONLY \$89.00**

**MAILLIST:** Mailing list, customer handling, filing program, ten data fields per customer. 8 character cust # - user (or dated program) assigned, sorts by most fields. Add, delete or modify any record. Prints all or part on 1, 2 or 3-up labels on 80 column printer. **ONLY \$89.00**

**\$FINANCE:** Personal financial program. Prints checks, posts amount to selected budget category, posts debits and deposits, prints check ledger, reconciles and prints reconciliation statement. Similar program for charge cards. Extracts and prints list of expenditures in selected budget categories. **ONLY \$79.00**

**TOUCHTYP:** Touch typing course, Beginning, Intermediate & Advanced. Tests and displays typos and displays final score **ONLY \$79.00**

**STANFORM:** Need to fill out standard or non-standard forms? This program generates programs for printing data in the proper location on invoices, gov't forms, insurance claims, any form that will fit into your printer. **ONLY \$79.00**

**MBSCHART:** Prints MICROSOFT BASIC programs, prints cross reference list of all referenced lines, prints list of variables cross referenced to each line where used. A godsend if you modify or debug Mbasic programs. **ONLY \$79.00**

Price includes disc, manual, and shipment next working day by first class mail. Mail in your order today or request detailed program listing. Better yet, if using accepted credit card, phone your order or data request to our 7 day, 24 hour phone service. Californians must add 6% to all prices.

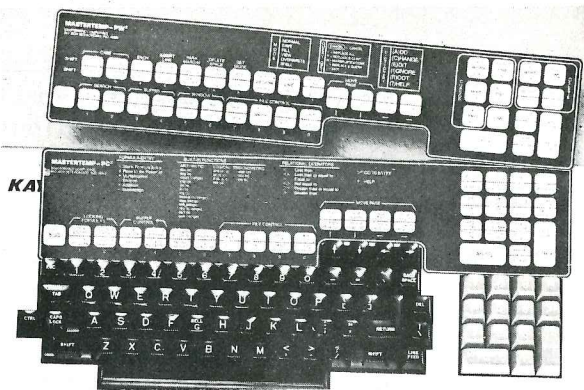


(Visa, Mastercard & American Express accepted)

**Micro-Art Programmers**

173 Birch Avenue, Cayucos, California Phone: (805) 995-2329

MBASIC® is a registered trademark of MICROSOFT



## MASTERTEMP

No more commands to memorize!  
Powerful, but simple and easy to use!  
Color coded templates for use with  
**PERFECT WRITER®** and **PERFECT  
CALC®**. All commands implemented!

Not just a crib sheet, MASTERTEMP pro-  
grams keys on your keyboard to work with  
our templates!

Two Multi-color plastic templates for PERFECT WRITER® and PERFECT CALC.® allows user to directly execute grouped functions by the pre-programmed top row and numerical keyboard. The numerous program functions can be executed without memorizing ANY of the commands. This is not just a crib sheet, but actually re-defines the commands to work with our template. Templates also show built-in functions, relational operators, and mode options. The HELP file is also updated to show command changes.

### PACKAGE INCLUDES:

- \*MASTERTEMP-PW template
- \*MASTERTEMP-PC template
- \*Program Diskette
- \*Installation and Operation Manual

\*Please specify PERFECT WRITER® and PERFECT CALC.® Versions  
\*Dealer Inquiries Invited

PACKAGE PRICE ..... ONLY \$49.00

To Order Call (317) 459-8537 or write to

**MASTERMIND** computing

P.O. BOX 2673 • KOKOMO, IND. 46902 • PHONE (317)459-8537



Check, Money Order, COD, VISA, MC  
Add \$2.50 for shipping – Ind. res. add 5%

## Plu\*Perfect Writer

Enhancements for Perfect Writer versions 1.03 and 1.20

- ★ One-touch commands—using any keypad key—plus normal keypad mode.
- ★ One-touch switch to overwrite mode.
- ★ Variable-size swap file, up to entire disk.
- ★ Built-in directory listing.
- ★ Change disks and automatic warm-boot.
- ★ Eliminates PW editor bugs—7 in v1.03; 6 in v1.20.
- ★★ Change user number (v1.20).
- ★★ Display page number (v1.20).

## CP/M 2.2E

Enhancements for the CP/M operating system

- ★ Automatic 2-drive program search.
- ★★ Public files accessible from all user numbers.
- ★ Program re-execution.
- ★ Type-ahead keyboard.
- ★ Super-fast full-disk copy—just 56 seconds to format, copy & verify.
- ★ 6 user-group utilities included.

Perfect Writer, Wordstar and CP/M are registered trademarks of Perfect Software, MicroPro, and Digital Research, respectively.

## The Backgrounder

—with definable keys—

Temporarily interrupt any program to:

- ★ Change disks
- ★ Read disk directory
- ★ Erase and rename files
- ★ Type and print files
- ★★ Change printer margins, underlining, etc.
- ★★ Print the KayPro screen
- ★★ Type notes to a Notepad file

Plus fully-definable keys:

- ★★ Every key is redefinable—up to 255 characters
- ★ All regular keys are still available
- ★ Create, change and save definitions while running a program
- ★ Automatically load customized definitions for each program

Also included:

- ★★ MODEM9 telecommunications program

**The Backgrounder** — It's like having a second computer!

The Backgrounder is a trademark of Plu\*Perfect Systems. An earlier version was called Plu\*Perfect Keypad/Helper.

★★ = new features. CP/M 2.2E for the KayPro 10 is in final testing. Write for information.

I'd like to upgrade my KayPro II\_4\_. Please send me:

Quantity	Disk	Product	Price
_____	K-1	Plu*Perfect Writer and CP/M 2.2E	\$ 32.00
_____	K-2	The Backgrounder (requires K-1 or K-3)	\$ 32.00
_____	K-3	CP/M 2.2E only	\$ 23.00
Subtotal:			_____
Deduct \$5 for two or more disks:			_____
California residents: add 6% sales tax			_____
Shipping and handling			\$ 2.00
Total:			\$ _____

Check if  
previous customer ☐

Name \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_  
Visa\_\_\_\_ MC\_\_\_\_ Signature \_\_\_\_\_  
No. \_\_\_\_\_ Exp. \_\_\_\_\_

**Plu\*Perfect Systems**

BOX 1494 • IDYLLWILD, CA 92349 • 714-659-4432

\*plu\*perfect adj : superlative



## CRUNCH™: A General Purpose Data Analysis Program

### Features:

- Menu driven
- Use defined spreadsheet
- Separate equation files
- Printer graphics (Lo & hi res)
- Word processing

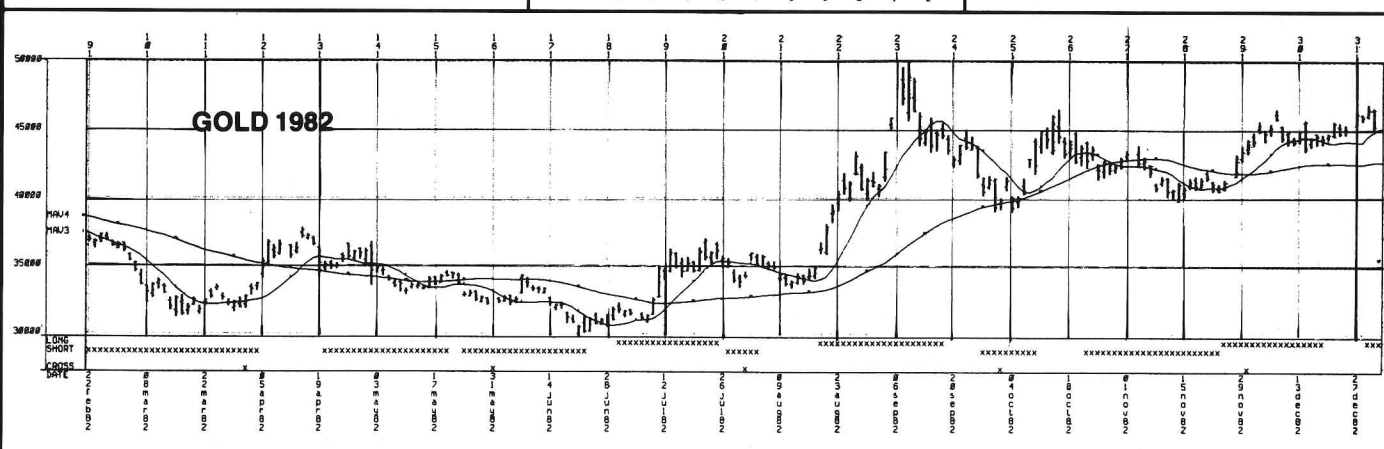
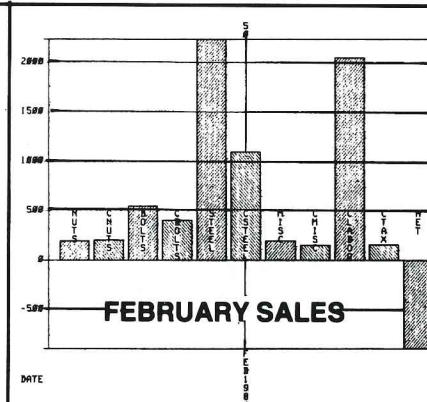
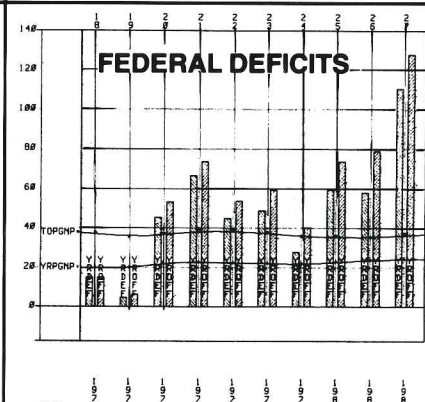
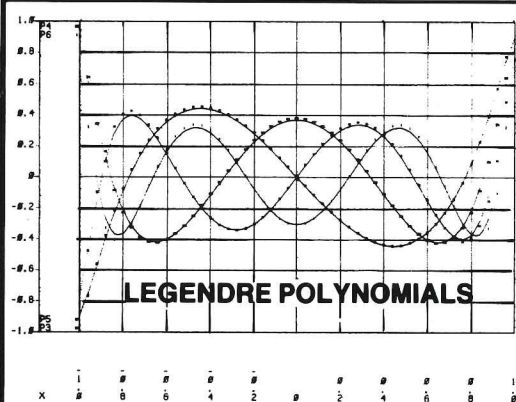
### 6 Example files:

- Financial Market Analysis
- Company Sales
- Federal Debt Projection
- Legendre polynomials
- Mailing lists
- Checkbook

This integrated software was written in assembly language on a KAYPRO II. All files (program and examples) are on one disk. Specify computer and printer when ordering from:

**SUNRISE CO.**  
7208 Gran Vida  
El Paso, TX 79912  
(915) 581-2262

**\$ ONLY 149**



## NEW PRODUCTS

(continued)

**MagicIndex** compiles, alphabetically sorts and prints index entries, table of contents, and other lists. Entries of up to 1,000 characters can be marked and printed directly from text as is, or converted to upper or lower case. "See also" and other comments may be added to entries, and a table of contents can be automatically generated when auto-numbering symbols are used for chapters and sections. \$150.

Kaypro 2, 4, and 10. Computer EdiType Systems, 500 Cathedral Parkway 10A, New York, NY 10025 (212) 222-8148.

**Graphics software.** Reportmaker lets you insert graphics into text using WordStar. You can produce pie charts, bar graphs, line graphs and area graphs simply by selecting a format and filling in the blanks. The program will automatically scale axes and

titles, and print directly from the screen. Reportmaker also can create logos for page headings on company stationery and other uses. The program works on Epson MX/FX, Star Gemini, and Okidata 92/93 printers.

\$130. Kaypro 2 and 4. Krepec Software, Inc., 5460 Royalmount, Suite 208, Montreal, Quebec, Canada H4P 1H8 (514) 735-4749.

**Knowledge processor.** KAMAS, Knowledge And Mind Amplification System, combines a new concept—outline processing—with information retrieval, word processing, telecommunications and optional programming capabilities.

With KAMAS's outline processing, you can organize your ideas in a outline form, in which you can insert, delete and move items. Once entered, KAMAS's information retrieval feature can easily access an idea by key word

or string. A full-feature word processor for outline editing and printing is included, along with a structure for a bulletin board system. Although you don't need to know programming to run KAMAS, it provides its own language.

A user can choose to run the program in four levels of complexity. The outer level is menu-driven; the inner levels are programmable and command-driven. The program comes with on-line help messages, a two-volume user manual, and a free subscription to *The KAMAS Report*, an applications newsletter.

\$175. Compusophic Systems, 2525 S.W. 224th Ave., Aloha, OR 97006 (503) 649-3765.

□

# DATASaver®

## Reliable Microcomputer Power

**PROTECTION** - saves data during power failures.  
- saves hardware from overvoltage transients.

**PORTABILITY** - allows mobile or extended holdup time using auxiliary 12 volt battery.

**FEATURES** - internal battery provides 5 min. + operating time—AC line conditioning—audible and visual alarms, interrupt signal—no installation required.

200 Watt - \$695  
90 Watt - \$395

Instant Power Order Line  
**805-541-4161**

Special applications, OEM/Dealers call (805) 541-4160

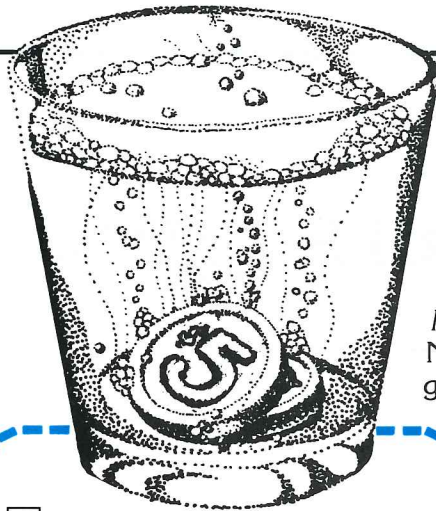
**CUESTA SYSTEMS, INC.**  
3440 Roberto Court  
San Luis Obispo, CA 93401



# Solve Keystroking Headaches ...take a small dose of MagiKey™ for only

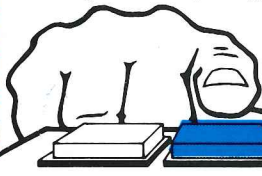
**\$5\***

\* in the U.S. (\$10 Canada and Mexico,  
\$15 other countries)



☐ Yes, I want to take advantage of your unprecedented offer to try MagiKey™ on my KAYPRO®. Enclosed is my check or money order for \$5 (\$10 Canada and Mexico, \$15 other countries).

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_  
Zip \_\_\_\_\_ Phone ( ) \_\_\_\_\_  
Mail to: PRO microSystems  
16609 Sagewood Lane, Poway, CA 92064 PF584



**MagiKey**

You really have to see it and try it to believe it ... so for only \$5 we'll send you our very special MagiKey™ Demo Disk.

If you are a KAYPRO® II, 4 or 10 user, you can't afford to miss out on the opportunity to learn about the MagiKey™ keyboard expander. Now you can test it, operate it and get invaluable hands-on experience

**BEFORE YOU BUY IT!**

With one keystroke, you can have unlimited string length, keystroke pause, on-line help, batch processing for any file and much, much more! Invest \$5 in your future and mail in this MagiKey™ Demo Disk order form today!



**microSystems**  
16609 Sagewood Lane  
Poway, California 92064  
(619) 693-1022

**Selling for \$100**

If you wish to order now, call today: (619) 693-1022  
You may pay by check, VISA, or MC. Add 6% tax in CA.  
Shipping: included for prepaid orders in the U.S.,  
\$10 for Canada and Mexico, \$15 other countries.

# SOFTWARE

## For your Apple®, IBM-PC®, or Kaypro®

### BID MASTER-I©

- A comprehensive bidding program for Architects/Developer/Contractors.
- Automatically computes low bid.
- Computes selected base bid total.
- Indexes all bids by section.

Visa, MasterCard  
or money order only.



### INVESTOR MASTER-I© (Requires PerfectCalc™)

- A comprehensive investment analysis tool.
- Up to 27 independent variables.
- Generates cash flows, before and after taxes.
- Computes IRR, interest deductions for up to three amortized mortgages, cost recovery, monthly debt service, and much, much more.
- Soon available for Multi-plan® & VisiCalc®

**Only \$89**  
each

**To Order Call  
(602) 743-7016**

Apple is a registered trademark of Apple Computer, Inc. • IBM-PC is a registered trademark of IBM • Kaypro is a registered trademark of Non-Linear Systems • PerfectCalc is a registered trademark of Perfect Software, Inc. • Multi-plan is a registered trademark of Microsoft, Inc. • VisiCalc is a registered trademark of Visicorp.

For more detailed information about these and other software call or write FIN-TEC Service Corp. today at 3101 North Calle Castellon, Tucson, Arizona 85745.

# Users' groups

by Clifford Odendhal

**T**he Kaypro users' groups were, for the most part, formed independently for the sole purpose of mutual support and information exchange among the owners and operators of Kaypro computers. While some were formed as a part of a dealership and are dependent on these dealers for a variety of things, from meeting rooms to training, the general tone of the system is the independent group of users who work with only member support and interdependence.

Kaypro wishes to encourage this direction and tone. Kaypro encourages the non-profit status of all Kaypro users' groups. In addition, we intend to be very cautious concerning the amount and type of support, and the connection the Kaypro main office has with the KUG network.

For this reason, Kaypro is opposed to any financial support of programs and business of the individual groups. Equipment donations are also a problem in this respect. Kaypro feels that any financial connection of this sort can all too easily lead to a sense of dependence on the home office.

Our ongoing support of the groups will continue to include the InfoMail mailings of data concerning software fixes, hardware updates, and general information useful to or of interest to Kaypro users. Promotional items will continue to be sent to KUGs in order to increase the spirit of camaraderie so encouragingly

present in most of the groups I have visited.

As KUG manager for Kaypro, my major project this year is to travel about the country speaking to users' groups and getting to know members of the groups and the unique problems they may have in their area. I am also grooming several others to speak to the KUGs on a wide range of subjects, from corporate policy to hardware diagnosis.

Over the past two years, you, the members of the Kaypro users' groups, have become a powerful and cohesive force in the computer marketplace. Kaypro would like to express its appreciation for the invaluable word-of-mouth endorsements of our equipment by our user base. It is extremely gratifying to hear of the admiration and loyalty felt toward our machines by the people who use them.

Keep up the good work and KUG your Kaypro today! □

**Kaypro users' groups have no official relationship with Kaypro Corporation. Therefore, we can take no responsibility for the accuracy of the information in the list below, nor for the activities of the groups themselves. For further information, you can contact the group in the list nearest you or write to:**

**Clifford Odendhal,  
KUG Manager  
533 Stevens Ave.  
Solana Beach, CA 92075**

## ALASKA

**ANKOR**  
1705 Bartlett Dr.  
Anchorage, AK 99507

## ARIZONA

**YAVAKUG**  
P.O. Box 68  
Kirkland, AZ 86332

**AZKUG**  
5158 E. Tunder Dr.  
Phoenix, AZ 85044

**TUKUG**  
P.O. Box 12083  
Tuscon, AZ 85732

## CALIFORNIA

**KAYPOWER**  
853 N. Dickel  
Anaheim, CA 92805

**TUSKUG**  
695 Londerry  
Anaheim, CA 92802

**SOBAYKSIG**  
546 Douglas St.  
Chula Vista, CA 92010

**Sacramento KUG**  
7001 Brookcrest Way  
Citrus Heights, CA 95621

KUG—N. San Gabriel Valley  
1416 N. Indian Hill Blvd.  
Clairemont, CA 91711

ETKUG  
24601 Raymond Way  
El Toro, CA 92630

FULLKUG  
3241 Topaz Ln.  
Fullerton, CA 92631

LAKUG  
3133 Corinth Ave.  
Los Angeles, CA 90066

UCLA/USC KUG  
Richard Baum  
Political Science Dept., UCLA  
Los Angeles, CA 90024

K-WEST  
1924 Beryl Lane  
Newport Beach, CA 92660

BAK-UP  
P.O. Box 20181  
Oakland, CA 94620

KSIG  
N. Orange County Computer  
Club  
P.O. Box 3616  
Orange, CA 92665

BAD SECTOR  
3515 Sacramento  
San Francisco, CA 94118

COLAVKUG  
1105 Coleman Ave. MD 750  
San Jose, CA 95108

SCKUG  
1005 Cedar St.  
Santa Cruz, CA 95060

SRKUG  
4772 Sunshine Ave.

Santa Rosa, CA 95405

KSIG  
San Diego Computer Society  
9235 Lake Hill Rd.  
Santee, CA 92071

NOCOKUG  
616 Stevens Ave.  
Solana Beach, CA 92075

San Fernando Valley KUG  
18639 Ventura Blvd.  
Tarzana, CA 91356

TUG  
P.O. Box 323  
Tehachapi, CA 93561

SOBOKUG  
2839 Pacific Coast Hwy.  
Torrance, CA 90505

Ventura County KUG  
1956 Pelican Ave.  
Ventura, CA 93003

N. San Diego County KUG  
171 Unity Way  
Vista, CA 92083

S. San Gabriel Valley KUG  
P.O. Box 9253  
Whittier, CA 90608

WOODHILLKUG  
22554 Tiara St.  
Woodland Hills, CA 91367

## COLORADO

Aspen KUG  
117 S. Spring St.  
Aspen, CO 81611

Kaypro User's Association of  
Fort Collins

(continued)

# PRINTERIZE<sup>TM</sup> YOUR WORDSTAR<sup>®</sup>

## Why?

- \* So you have easy access to all your printer's capabilities from inside of WordStar.
- \* No need to run a BASIC program to set-up your printer.
- \* Helps you save your sanity from trying to figure out how to patch WordStar yourself or from magazine articles.

Printerizers go far beyond those magazine patches, using an installer that is VERY easy to run. They add from 0 to 5K to WS.COM, depending on the printer selected. The specifics of what will be gained vary from printer to printer, but they all have the same goal in common:

**"Give the user easy access to every useful capability of his printer."**

Some Printerizations (notably Epson and Gemini) require HexPrintR to access some of the printer's less frequently used options. Call or write (specifying your printer) for details.

**HexPrintR<sup>™</sup>** changes the WordStar printer control character ^R into a "Hex-Printer" function. For example:

**^R 10, 15, 20 ^R**

in a file printed by WordStar with HexPrintR installed into it would send the same thing to the printer as the BASIC program statement:

**LPRINT CHR\$(10) ; CHR\$(15) ; CHR\$(20) ;**

(Not recommended for daisy wheel printers)

## PRINTERIZERS ARE AVAILABLE FOR:

- |   |   |
|---|---|
| <input type="checkbox"/> Epson RX/FX printer                        | <input type="checkbox"/> Epson w/Graftrax 80  |
| <input type="checkbox"/> MX80-111 / MX100-111 / Any w/Graftrax Plus |   |
| <input type="checkbox"/> MX100 w/o Graftrax                         | <input type="checkbox"/> MX80 w/o Graftrax    |
| <input type="checkbox"/> Gemini 10(X) or 15(X)                      |   |
| <input type="checkbox"/> IDS Prism / Microprism                     | <input type="checkbox"/> Okidata 82A / 83A    |
| <input type="checkbox"/> Okidata 92 / 93 or 84                      |   |
| <input type="checkbox"/> Brother HR-1 or Comrex CR-1                |   |
| <input type="checkbox"/> C. Itoh Prowriter I or II                  |   |
| <input type="checkbox"/> NEC PC-8023A                               | <input type="checkbox"/> Other DMP-85 printer |

## In the following diskette formats:

- |                                     |   |
|-------------------------------------|---|
| <input type="checkbox"/> Kaypro II  | <input type="checkbox"/> Osborne        |
| <input type="checkbox"/> Apple CP/M | <input type="checkbox"/> Otrona Attache |

- |  |                |
|--|----------------|
| <input type="checkbox"/> Printerizer:    | <b>\$35.00</b> |
| <input type="checkbox"/> with HexPrintR: | <b>\$55.00</b> |
| <input type="checkbox"/> HexPrintR only: | <b>\$39.00</b> |

## ORDERING INFORMATION:

Prices include U.S. or Canadian First Class mail delivery. California residents add 6% sales tax. Overseas orders pay in US funds adding \$4 shipping. Payment may be by money order, check, Visa or Mastercard. UPS COD add \$4, 2nd day UPS COD add \$6. Please include phone number with order. Both Printerizers and HexPrintR work with versions 2.26, 3.0 and 3.3 of WordStar under CP/M and CP/M Plus.

Trademarks: HexPrintR and Printerizer, C.I. Software; Prowriter, C. Itoh Electronics; WordStar, MicroPro Corporation; Graphtrax, Epson America.

 **C.I. SOFTWARE & COMPUTER PRODUCTS**  
1380 Garnet Ave. E149, San Diego, CA 92109 619/483-6384

# Kaypro users, Subscribe now.

If you own a Kaypro, six issues of *PROFILES* won't cost you a penny.

If you've purchased a Kaypro computer, the cost of a six-issue *PROFILES* subscription was included in the purchase price. If you sent in your warranty card, you should be on the mailing list. If you haven't received an issue in the mail, please fill out the form below and send it in. We must have accurate serial numbers and zip codes for subscriptions to go through, so be thorough. Please allow 10-12 weeks for delivery. Note: the free subscription begins with the first issue you receive in the mail and has no relationship to the complimentary issue packed in your machine.

If you don't have the luck to own a Kaypro, you can still subscribe (use the lower form). Or you can pick up a copy at any authorized Kaypro dealer. Call 800-447-4700 for the dealer nearest you.

---

## Yes, I own a Kaypro.

I'd really like to receive six issues of *PROFILES*, free of charge.

Name: \_\_\_\_\_  
(LAST) (FIRST) (M.I.)

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Kaypro model: \_\_\_\_\_ Date purchased: \_\_\_\_\_

Serial number: \_\_\_\_\_

(NO FREE SUBSCRIPTIONS WITHOUT SERIAL NUMBER)

\*OWNERS OUTSIDE OF U.S.A. SHOULD CONSULT THEIR KAYPRO DEALERS, OR WRITE TO: KAYPRO INTERNATIONAL, P.O. BOX N, DEL MAR, CA 92014.

---

## No, I don't own a Kaypro.

I'd like to receive six issues of *PROFILES*, and I've enclosed a \$12.00 check or money order made payable to Kaypro Corporation.  
(No cash, please.)

Name: \_\_\_\_\_  
(LAST) (FIRST) (M.I.)

Address: \_\_\_\_\_ City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

\*SUBSCRIBERS OUTSIDE OF U.S.A. SHOULD WRITE TO: KAYPRO INTERNATIONAL, P.O. BOX N, DEL MAR, CA 92014.

Send to: *PROFILES* Subscriptions, P.O. Box N, Del Mar, CA 92014.  
Please allow 10-12 weeks for delivery.

**PROGRAM  
SELECTION  
FOR  
KAYPRO  
MORROW  
OSBORNE**

# DYNACOMP

*The Leading Distributor Of  
Microcomputer Software*

**PRESENTS**

APPLE™

ATARI™

CANON AS-100™

COMPUSTAR™

HEATH/  
ZENITH Z-100™

IBM PC™

KAYPRO II™

MORROW  
DESIGN™

NEC™

NORTHSTAR™

OSBORNE™

PET/CBM™

SUPERBRAIN™

TRS-80™

CP/M DISKS  
DISKETTES

## PERSONAL FINANCE

PERSONAL FINANCE SYSTEM.....	\$ 42.95
PERSONAL FINANCE MASTER.....	\$ 52.95
PERSONAL BALANCE SHEET.....	\$ 32.95
HANDICAPPER.....	\$ 36.95
TAX OPTIMIZER.....	\$ 62.95

## BUSINESS

PORTFOLIO MANAGEMENT.....	\$ 72.95
MICRO STOCK PROGRAM.....	\$ 62.95
MICRO CHART PROGRAM.....	\$ 62.95
MICRO BOND PROGRAM.....	\$ 62.95
OPTIONS ANALYSIS.....	\$102.95
BUYSEL.....	\$152.95
BOOK KEEP.....	\$ 72.95
FINANCIAL MANAGEMENT SYSTEM.....	\$152.95
CUSTOMER PROFILE.....	\$ 62.95
DATEBOOK.....	\$ 22.95
SOME COMMON FINANCIAL PROGRAMS.....	\$ 12.95
MINI-LEDGER.....	\$149.95

## ADVENTURE

GUMBALL RALLY.....	\$ 24.95
CRANSTON MANOR.....	\$ 22.95
UNCLE HARRY'S WILL.....	\$ 27.95
THE ORIGINAL ADVENTURE.....	\$ 12.95

## CARD GAMES

BRIDGEMASTER.....	\$ 32.95
POKER PARTY.....	\$ 26.95
GO FISH.....	\$ 21.95
BLACKJACK COACH.....	\$ 36.95
M-MASTER.....	\$ 22.95
DUPLICATE BRIDGE SCORER.....	\$ 32.95

## STATISTICS

REGRESSION I.....	\$ 26.95
REGRESSION II.....	\$ 26.95
MULTILINEAR REGRESSION.....	\$ 31.95
STATEST.....	\$ 36.95
ANALYSIS OF VARIANCE.....	\$ 46.95
STATISTICAL SUBROUTINES.....	\$102.95
DATA SMOOTHER.....	\$ 26.95
SOME COMMON STATISTICS PROGRAMS.....	\$ 12.95
STATISTICAL LANGUAGE FOR MICROCOMPUTERS.....	\$249.95

## BOARD GAMES

STAR CON.....	\$ 22.95
SPARE LANES.....	\$ 17.95
BACKGAMMON.....	\$ 26.95
CHESS MASTER.....	\$ 26.95

## DATABASE MANAGEMENT

DATA RETRIEVAL SYSTEM.....	\$ 32.95
DYNABASE DATABASE.....	\$ 52.95

## ENGINEERING

FOURIER ANALYZER.....	\$ 26.95
TRANSFORM FUNCTION ANALYZER.....	\$ 32.95
HARMONIC ANALYZER.....	\$ 36.95
DIGITAL FILTER.....	\$ 56.95
LADDER NETWORK.....	\$ 32.95
LOGIC DESIGNER.....	\$ 37.95
WIRE MAP.....	\$ 42.95
ENGINEERING COLLECTION #1.....	\$ 42.95
BEAM DEFLECTION.....	\$ 42.95
ROOTS.....	\$ 22.95
HEAT LOSS.....	\$ 32.95
PRESSURE LOSS.....	\$ 32.95
BASIC SCIENTIFIC SUBROUTINES	
VOLUME I.....(set)	\$ 61.95
VOLUME II.....(set)	\$153.95
VOLUME III, Chapter 2.....(set)	\$ 27.95
LINEAR PROGRAMMER.....	\$ 36.95
DIFFERENTIAL EQUATIONS.....	\$ 22.95
STATE VARIABLES.....	\$ 22.95
DYNAFORTH.....	\$ 77.95
SOME COMMON MATH PROGRAMS.....	\$ 12.95
ANALOG.....	\$102.95
TIDY-80.....	\$ 42.95

## EDUCATION

TEACHER'S AIDE.....	\$ 20.95
CRYPTO.....	\$ 20.95
MASTER DRILL.....	\$ 21.95
ELIZA III.....	\$ 22.95

## GENERAL GAMES

MANAGEMENT SIMULATOR.....	\$ 32.95
IRONCLADS.....	\$ 32.95
VALDEZ.....	\$ 26.95
SPACE EVACUATION.....	\$ 22.95
STARBASE 3.2.....	\$ 20.95
MONARCH.....	\$ 21.95
FLIGHT SIMULATOR.....	\$ 26.95
GAMES PACK I.....	\$ 21.95
GAMES PACK II.....	\$ 21.95
MOON PROBE.....	\$ 19.95

## MISCELLANEOUS

CONTROL DATA SSDD 5¼" DISKETTES	
WITH HUB RING, & STORAGE BOX.....	\$ 26.95/10
COMPUTER WORK STATION.....	\$69.95+Freight

ADD \$3.00 for SHIPPING & HANDLING

## THESE ARE ONLY A FEW OF THE HUNDREDS OF PROGRAMS IN THE DYNACOMP LIBRARY

Besides being the leading distributor of microcomputer software, DYNACOMP currently distributes software in over 60 countries. DYNACOMP provides FRIENDLY, ACCESSIBLE CUSTOMER SERVICE through our highly qualified and knowledgeable staff. WE'RE AS NEAR AS YOUR TELEPHONE.

DYNACOMP'S prices are highly competitive and we promise prompt processing of every order!

*WRITE FOR A FREE, DETAILED CATALOG*

*Daytime* *24 Hour*  
Toll Free Order Phones: Message and Order Phone:  
(800) 828-6772 (800) 828-6773 (716) 442-8731

*Office Hotline:*  
9-5 E.S.T.  
(716) 442-8960

**DYNACOMP, INC.**  
1427 Monroe Avenue • Rochester, NY 14618



## COMMUNICATIONS LOVE AFFAIR

from  
SWAP FILE FULL

The **SIGNALMAN MARK XII BRILLIANT** (not™)  
**MODEM** does it all without a loudspeaker to  
wake your spouse. For KAYPRO

»\$380.00«

110/300/1200 baud Hayes™ compatible.  
INCLUDING (at no cost) software to use it. 26 entry USER  
CHANGABLE directory; auto-dialer/answer, Baud and file  
speed control, file utilities and more in SIGXII.COM Plus  
Communication utility programs and other handy stuff with  
instructions on disk. Plus prewritten 10 entry PERMANENT  
directory.

Send SASE for more information.

To Order: please print your name and address (on p.o. box), 10 exact  
names and numbers (including 1 and area code if needed) for  
Permanent Directory, send \$380.00, California residents add 6½%, in  
Money Order or Check (add 2 weeks), COD orders add \$5.00 (Cash or  
Money order only on COD). No phone orders yet.

We ship prepaid UPS

**SWAP FILE FULL**

25530 Avenue Stanford, # 203  
Valencia, CA 91355

**StatPac**<sup>TM</sup>

## Statistical Analysis Package

*A complete data manager and statistical analysis package  
similar to mainframe SPSS.\**

StatPac's features include:

batch processing, variable and value labels, select if,  
recode, recode if, compute, compute if, sort cases, list  
cases, write subfile, frequencies, descriptive statistics,  
crosstabs & chi-square, correlation & linear regression,  
t-test for matched pairs or independent groups, multiple  
regression, one and two-way anova, two kinds of multi-  
ple variable response.

StatPac can handle fixed or free format data files and  
2000 cases with up to 255 columns of information per  
case. Statistic selections and printing options are  
available on all analyses including paper saving  
ecology feature.

**Walonick Associates**

**5624 Girard Av. S.**

**612-866-9022**

**Minneapolis, MN 55419**

*The Quality Analysis Package for  
the Professional*

\*SPSS is a trademark of SPSS, Inc.

### USERS' GROUPS

(continued)

636 S. College Ave. Ste. 152  
Fort Collins, CO 80524

Denver Kaypro Association  
P.O. Box 1507  
Wheatridge, CO 80034

### CONNECTICUT

NWCONKUG  
Paula Xanthopoulou  
Marvelwood School  
Cornwall, CT 06753

CTKUG  
P.O. Box 9235  
New Haven, CT 06533

### FLORIDA

KAPPA  
P.O. Box 1563  
Gulf Breeze, FL 32561

Tampa Bay KUG  
14 Cypress Dr.  
Palm Harbor, FL 33563

S. Florida KUG  
2301 N. University Dr. #2  
Pembroke Pines, FL 33048

Tallahassee KUG  
3312 Lake Shore Dr. W.  
Tallahassee, FL 32312

### GEORGIA

ATHKUG  
119 Biscayne Dr.  
Athens, GA 30606

KUGA  
2173 W. Broad St.  
Athens, GA 30606

GAKUG

P.O. Box 68  
Warner-Robbins, GA 31098

## HAWAII

HPCUG  
578 Ala Moana Blvd.  
Honolulu, HI 96813

## ILLINOIS

KAYMKUG  
2157 N. Seminary  
Chicago, IL 60614

WESUBKUG  
23 River Rd.  
Naperville, IL 60540

Central Illinois KUG  
P.O. Box 2487  
Springfield, IL 62705

Champaign/Urbana KUG  
602 W. Stoughton  
Urbana, IL 61801

ChiKUG  
605 Illinois Rd.  
Wilmette, IL 60091

## INDIANA

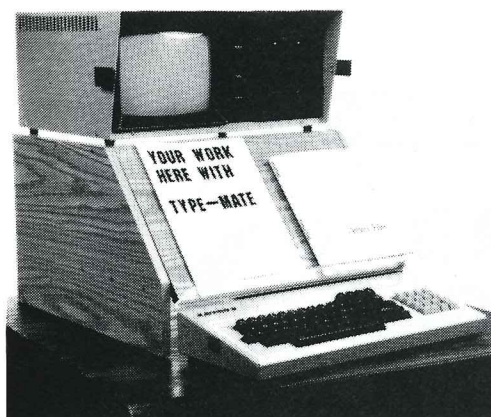
S. Indiana KUG  
713 S. Woodlawn  
Bloomington, IN 47401

CIKUG  
5230 E. 65th St.  
Indianapolis, IN 46220

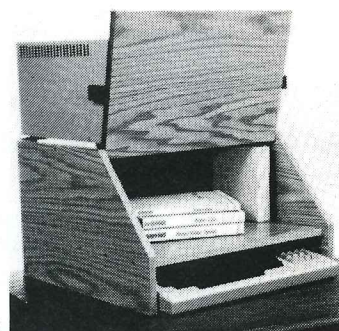
## IOWA

Iowa KUG  
Box 1250

(continued)



### "TYPE-MATE"



INCREASE DATA ENTRY  
SPEED & ACCURACY.  
INSIDE STORAGE  
for floppies, books, modem.  
OAK FINISH  
Keyboard Slides Inside

### PUT YOUR PAPER WORK WHERE IT BELONGS

*The Computer Stand that holds up more than just Your Computer,  
Books, Notebooks, Ledgers, Papers,  
and*

**\$69.95 NO MORE PAIN IN THE NECK \$69.95**

#### MODERN OFFICE MANAGEMENT SYSTEMS

Computer "TYPE-MATE"

1055 S.W. "A" St.

Corvallis, OR 97333

#### SATISFACTION GUARANTEED

OR RETURN WITHIN 30 DAYS  
FOR FULL REFUND.

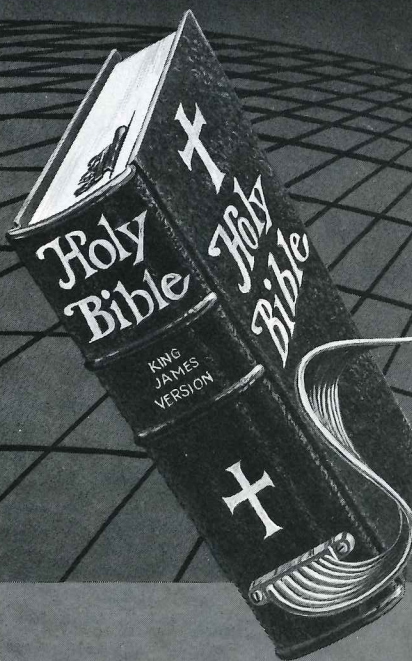
Shipped K.D. UPS PrePaid

Send \$1.00 for our computer furniture catalog.

**ORDER BY PHONE 503-757-8007 VISA - MASTERCARD**

DEALER INQUIRIES WELCOME

## New dimensions in Bible study.



### THE WORD processor

the complete KJV Bible on  
disks **\$199.95 \***

### TOPICS

an index to over 200 Scripture  
subjects **\$49.95 \***

\* plus \$3 postage/handling

For information contact:

### Bible Research Systems

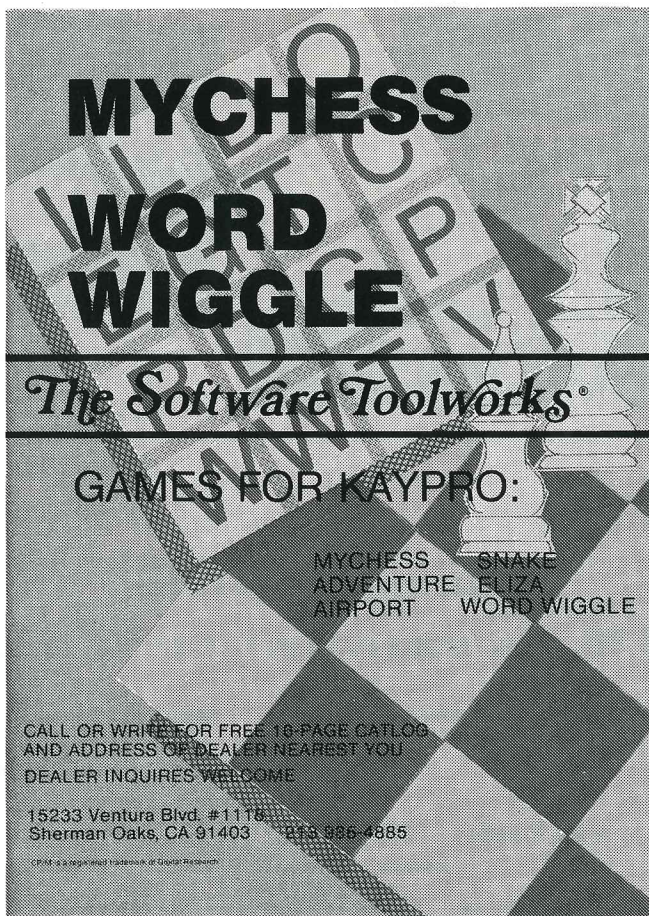
9415 Burnet, Suite 208

Austin, TX 78758

(512) 835-7981

"Software for personal Bible study."

Requires APPLE II +, IBM PC  
and compatibles, TRS80,  
CP/M 2.2 (Z-80), KAYPRO,  
OSBORNE, COMMODORE 64,  
Z-100.



## USERS' GROUPS

(continued)

Ames, IA 50010

KUGIG  
3010 Regency, Apt. 40  
Ames, IA 50010

## KENTUCKY

Kaypro Lexington Users' Group  
140 Moore Dr.  
Lexington, KY 40503

## LOUISIANA

S. Louisiana KUG  
4735 Idlewood Dr.  
Baton Rouge, LA 708095

## MAINE

KUGME  
RFD #2 Lincoln Rd.  
Saco, ME 04072

## MASSACHUSETTS

Cambridge KUG  
Box 308  
Prudential Center Station  
Boston, MA 02199

CPM/KUG  
8 Tanglewood Rd.  
Paxton, MA 01612


Boston KUG  
27 Howland Rd.  
West Newton, MA 02165

BOSCOS  
23 Derby Lane  
Weston, MA 02193

## MICHIGAN

- ▶ 20 times faster than a Floppy Disk
- ▶ 128K RAM (Random Access Memory)
- ▶ Expandable to 256K RAM on Board
- ▶ Internal Plug-In Installation

ASK ABOUT OUR "SECOND EXTENSION"™

 <p>LOGICAL EXTENSIONS INCORPORATED P.O. BOX 261 SAN RAMON, CA 94583 (415) 828-7566</p>	SEND ME:	
	— Floppy RamPage(s) @\$399.95	_____
	— Additional 128K for Floppy RamPage @\$199.95	_____
	— Additional Information	_____
	<b>SUBTOTAL</b>	_____
	Appro. CA Sales Tax (if applicable)	_____
	<b>SHIPPING &amp; HANDLING</b>	<b>\$5.00</b>
	<b>TOTAL</b>	_____

PAYMENT METHOD: <input type="checkbox"/> CHECK (Enclosed) <input type="checkbox"/> VISA <input type="checkbox"/> MASTERCARD	
Credit Card No.: _____	
Expiration Date: _____	
Signature: _____	

Name _____	City _____ State _____ Zip _____
Address _____	

\*KAYPRO II is a Trademark of Kaypro, Inc.

D:KUG  
P.O. Box 1517 Trolley Station  
Detroit, MI 48231

## MINNESOTA

KUMIN  
P.O. Box 24565  
Minneapolis, MN 55438

## MISSOURI

SLKUG  
Box 31126  
St. Louis, MO 63131

## NEVADA

Las Vegas KUG  
3600 Swenson St., #331  
Las Vegas, NV 89109

Three-State Kaypro  
1350 Davidson Way  
Reno, NV 895095

## NEW JERSEY

KUGNJ  
742 Coolidge St.  
Westfield, NJ 07090

## NEW MEXICO

KUGSAFE  
836 El Caminito  
Santa Fe, NM 87501

## NEW YORK

Buffalo KUG  
66 Russell Ave.  
Buffalo, NY 14214

(continued)

# WHY

ARE MORE AND MORE KAYPRO DEALERS  
OFFERING THEIR CLIENTS

## RELIABLE SOFTWARE?

1. Proven, Quality Products
2. Fast, Easy Set Up
3. Prompt, Reliable Support
4. High Profit Margins
5. Attractive Retail Prices

Dealers: Join the RELIABLE team.



RELIABLE  
SOFTWARE,  
INC.

### CALL TODAY

1-800-327-6593 U.S.

1-800-432-6929 FL

P.O. Box 1589, Apopka, FL 32704  
VISA OR MASTERCARD ACCEPTED

## MATH TOOLS™ SOFTWARE

Source code for basic math problems.

Written for ease of use, reliability, accuracy and speed.

Now available for KAYPRO II™ and 4™.

- Part I:** Double precision sin, cos, arctan, exp, log, square root
- Part II:** Linear algebra: Solves equations, evaluates determinants. Single and double precision, real and complex numbers. Uses full pivoting and row pointers for accuracy and speed.
- Part III:** Solution of real polynomial in one variable.

Parts I and II subroutines or procedures insert easily in your code; restricted line numbers and QK prefixed variable names avoid conflict with your code. Part III is input, solution and output programs. Typical times for Version S Part III: degree 6, 2 minutes; degree 16, 19 minutes. You get both Version S, which compiles in S-BASIC®, and Version M, which is interpreted by Microsoft™ BASIC-80, on diskette plus documentation with complete instructions and detailed examples of use.

Microsoft™ BASIC-80 is a trademark of Microsoft, Inc.

KAYPRO II™ and S-BASIC® are trademarks of Kaypro Corporation.

### Wingate Software, Inc.

P.O. Box 6955  
Chicago, Illinois 60680

Please send me:

\_\_\_\_\_ MATH TOOLS packages at  
\$29.95 each including UPS delivery.

Name \_\_\_\_\_

Address/Apt. \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Illinois/Cook County/Chicago residents  
add 5%/7%/8% tax respectively.

☐ Check enclosed ☐ Money Order enclosed

### MONEY-BACK GUARANTEE

Examine the documentation  
and, if you wish, return the  
package with diskette in its  
unopened sealed envelope  
within 15 days for a full  
refund.

©1983 Wingate Software™, Inc. All rights  
reserved. "Wingate™", "MATH-TOOLS™"  
are trademarks of Wingate Software, Inc.

## if you use **CP/M**<sup>®</sup> then you need **DISK FIX!**

DISK FIX is a disk editor which can display, edit or copy any sector of a CP/M floppy and/or hard disk. The DISK FIX utility can be used to recover files from disks with damaged directories, to reconstruct files with bad sectors, to restore erased files and to do general disk editing.

DISK FIX automatically configures to floppy and hard disks, just insert the program disk and it is ready to run. A single CPU license is available for \$150.

## PROGRAM MAP for Microsoft BASIC

PROGRAM MAP produces alphabetical lists of a program's variables, commands & functions, line numbers referenced and constants. It is fast and easy to use and runs directly under CP/M.

PROGRAM MAP helps you accurately 'debug', modify, convert and/or document Microsoft BASIC programs in a minimum amount of time. A single CPU license is available for \$150.

## telecommunications? use **SOFTCOM**<sup>®</sup>

SOFTCOM is a smart terminal and file transfer utility all in one easy to use package. SOFTCOM can:

- make your system a terminal to a HOST time sharing system.
- capture data onto your disk from a HOST time sharing system.
- send text and program files from your disk to almost any type of computer.
- exchange any type of file with another SOFTCOM system with error detection and automatic retry.

SOFTCOM runs on all CP/M based computers. Three license options are available: single CPU (\$150), dual CPU (\$250) and multi CPU (\$450).

## The Software Store

706 Chippewa Square • Marquette MI 49855

Call our software HOT LINE  
906/228-7622.

## USERS' GROUPS (continued)

KUGOR  
17th Fifth Ave.  
Fairport, NY 14450

LATKUG  
16 Maple St.  
Latham/Albany, NY 12110

KUGRAM  
P.O. Box 100  
Malverne, NY 11565

LIKUG  
20 Buckingham Place  
Manhasset, NY 11030

NYKUG  
Four Seasons Pub  
300 E. 46th  
New York, NY 10017

CENYKUG  
1 Skadden Terrace  
Tully, NY 13159

## NORTH CAROLINA

Charlotte KUG  
1808 E. Independence  
Charlotte, NC 28205

Triad KUG  
P.O. Box 8034  
Greensboro, NC 27419

RALLYKUG  
2100 Chrisdale Ct.  
Raleigh, NC 27607

## OHIO

KUDO  
P.O. Box 636 Wright Pat.  
Dayton, OH 45409

Central Ohio KUG  
6583 Brock St.  
Dublin, OH 43017

KAYBUG  
5236 Warrensville Center Rd  
Maple Heights, OH 44137

## OREGON

DCUG  
865 West 2nd  
Eugene, OR 97402

EKUG  
95 Coachman Dr.  
Eugene, OR 97405

MKCUG  
P.O. Box 214  
Lebanon, OR 97355

NWKUG  
P.O. Box 11  
Portland, OR 97207

KSIG  
Salem Area Computer Club  
3920 Monroe Ave. N.E.  
Salem, OR 97301

## PENNSYLVANIA

Allentown KUG  
Box 1902  
Allentown, PA 18105

BRANDYKUG  
492 Dean Dr.  
Kennett Square, PA 19348

Delaware Valley KUG  
132 S. 20th St.  
Philadelphia, PA 19103

PAKUP/PA  
345 Maxwell Dr.  
Pittsburgh, PA 15236

## RHODE ISLAND

(continued)

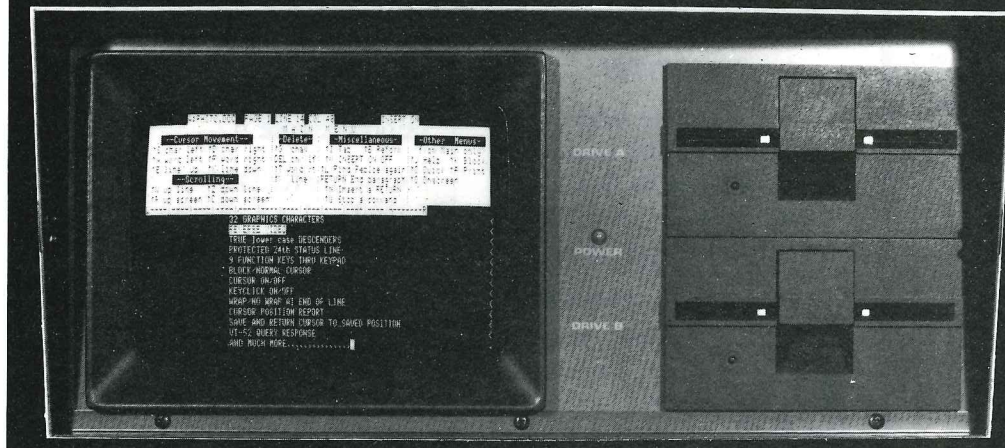
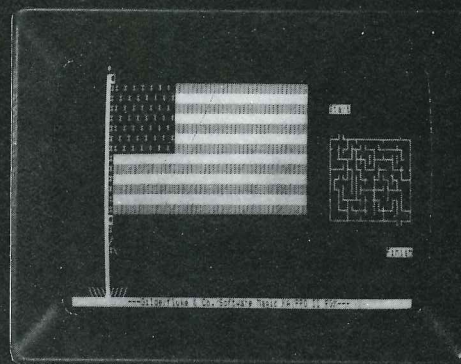
## FOR THE II AND 4's. GRAPHICS ADAPTER FOR KAYPRO COMPUTERS

This simple board adds most of the features of the popular Heath/Zenith H-19 terminal to your Kaypro. These include Reverse Video, Character Mode Graphics, and other advanced features. And because it emulates an existing terminal, there is a wealth of Graphics Game and Business Software packages already available for it. On all but those machines in which the ICs have been soldered in, installation is a simple matter requiring only about 15 minutes.

The Gilderfluke & Co. Graphics Adapter retails for \$175.00 (California residents must add 6 1/2% sales tax). Please include your Kaypro's serial number with order. If you have a Kaypro II which says "KAYPRO" on the boot prompt rather than "KAYPRO II", please indicate this when you order. Dealer inquiries are invited.

## AVAILABLE SOON FOR THE '+' AND 10's.

The features it will add to your Kaypro include:



**Gilderfluke  
& Co.**

120 Midway Drive  
Space 013  
Anaheim, Calif. 92805  
(714) 776-2207

Wow, THAT'S JUST THE DATA I NEED!  
HOW FAST CAN YOU GET ME A COPY  
OF THAT?



This man doesn't have  
the **STROKE**  
otherwise, he would make  
a printed copy of his CRT screen  
with just a SINGLE KEYSTROKE!!

But you can have the **STROKE**.  
Call or write today!

The **STROKE** - for all Kaypro® models  
The **STROKE+** - for Kaypro® 10 & 4-84  
The **STROKE** by Specialty Systems  
priced from just **\$34.95**.

**Specialty  
Systems**

12610 Central Avenue, #131  
Chino, CA 91710  
(714) 947-1627



DEALER INQUIRIES INVITED  
DISCOUNTS AVAILABLE



## YOU NEED MORE THAN JUST A MODEM!!!

Since you bought a Kaypro, the  
"Complete Computer,"  
shouldn't you buy a  
"Complete Modem System?"

### Our "system" prices include:

- The Modem
- 9 Volt Battery
- Cables
- Modem Software
- Membership to "The Source"
- Plus as an added bonus, while space permits, a subscription to our own 24 hour, 7 day BBS System which is available only to our customers, not the public.

No hidden charges. Our prices include the UPS charges and there is no extra charge if you use your VISA, Mastercard, or American Express to charge your purchases. We are not a mail order house. Our specialty is the productive enjoyment, growth and education of our customers through the use of modems and our closed BBS System.

Anchor Mark XII 1200/300 Baud Auto Answer/Dial Hayes compatible **\$337.50**

Anchor Volksmodem 300 Baud Auto Select/Originate/Answer Mode **\$107.50**

For ordering call: (619) 296-6660

### MODEMS R-US

1727 University Ave., Suite B  
San Diego, CA 92103

*If you can find a better "Modem System" deal tell us... if not, tell your friends.*

## AMBER SCREENS for KAYPRO

### STEP UP TO THE BEST

An AMBER display  
is the **EASIEST**  
on your EYES.

We provide you with the  
**BEST HIGH-CONTRAST,  
ANTI-GLARE  
DISPLAY YOU CAN BUY ...  
BAR - NONE**

A clear, sharp, bright,  
**EASY TO SEE screen  
NO MATTER HOW BRIGHT  
THE ROOM LIGHT IS.**

**ONLY \$89.95**

**EASY TO INSTALL YOURSELF**



AMBER VISIONS

878 Jackman St.  
Ste. 192

El Cajon, CA 92020  
(619) 579 - 2435

## USERS' GROUPS

(continued)

RHODYKUG  
593 Pocasset Ct.  
Warwick, RI 02886

## SOUTH CAROLINA

Grand Strand Area KUG  
69 Plantation Rd.  
Myrtle Beach, SC 29577

## TENNESSEE

Memphis KUG  
5512 Poplar Ave.  
Memphis, TN 38119

Nashville KUG  
P.O. Box 24606  
Nashville, TN 37202

## TEXAS

Kaypro Club of Austin  
1101 Cap. Texas Hwy. SE-101  
Austin, TX 78746

El Paso KUG  
4400 N. Mesa  
El Paso, TX 79902

HKUG  
16022 Lakeview  
Houston, TX 77040

Texas Bay Area KUG  
P.O. Box 590532  
Houston, TX 77259

San Antonio KUG  
2727 Woodley  
San Antonio, TX 78232

## VIRGINIA

Richmond KUG  
3019 Susquehanna Trail  
Ashland, VA 23005

*Available at last!*

## International subscriptions

*to PROFILES Magazine are now available  
through your dealer. Please send  
inquiries to:*

*Kaypro International  
P.O. Box N  
Del Mar, CA 92014*

*Canadian subscribers should also contact  
the above address for information.*

C:KUG  
Box 3823  
Charlottesville, VA 22903

CKUG  
P.O. Box 3693  
McClean, VA 22103

TIDEKUG  
P.O. Box 2501  
Virginia Beach, VA 23450

## WASHINGTON

EBURGKUG  
1809 East 3rd  
Ellensburg, WA 98926

Sno-King KUG  
323-75th St. #17  
Everett, WA 98203

OKUG  
6925 4th Way S.E.  
Olympia, WA 98503

PAKUP/WA  
NW 110 Dillon  
Pullman, WA 99163

KSIG  
Spokane Microcomputer Users  
Group  
North 904 Dyer Rd.  
Spokane, WA 99206

TACKPUG  
104 Madrona Park Dr.  
Steilacoom, WA 98388

PUGSKUG  
P.O. Box 922  
Tacoma, WA 98401

W2KPU  
RR 2 Box 247  
Walla Walla, WA 99362

(continued)

## SET TYPE

### On your Kaypro™ computer

Use your Kaypro Computer as an input to our sophisticated laser typesetting system. We can take copy from your discs and turn it into professional quality type galleys, at a cost of approximately 1/2 of that charged by commercial typesetting services. Since there is no rekeyboarding or reprooffreading, production time is greatly reduced.

We have over 100 typefaces available. Now your Manuals, Newspapers, Newsletters, Books, Directories, Cookbooks etc. can have the benefit of top quality typesetting.

Write or call us for very complete information.

 **ACCENT  
GRAPHICS**

226 So. 16th St. • Lincoln, NE 68508  
(402) 475-5533

## EXPAND YOUR PROTENTIAL

### ✧ HARD DISK ADAPTOR

Allows you to add megabytes of storage. Easy to install. Includes complete software and documentation.

\$95.00 single unit quantity.

### ✧ CP/M 3.0 BIOS UPGRADE

Allows installation of CP/M 3.0 giving you a faster more powerful system.

\$50.00 single unit quantity.

### ✧ PRONET

— local network for Kaypro computers. Call to order or for information

OEM/DEALER INQUIRIES WELCOME  
Quantity Discount Available.

  
**HUNTINGTON DATA SYSTEMS**

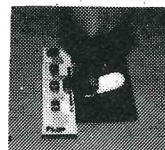
Solutions that work for you

**307 SIXTH STREET  
HUNTINGTON BEACH, CA 92648  
(714) 960-7498**

### You can convert your single-sided diskettes to double-sided in less than 30 seconds with a new patent-pending discovery.

Apple, IBM, Osborne, Kaypro, TRS 80 and other owners can convert their single-sided 5 1/4" or 8" disks to double-sided disks with FLIP-IT, a new, patent-pending converter, superior to any cheap imitations on the market. So **simple to use**, even a child can make the conversion in less than 30 seconds. No measuring or alignments required. So **economical**, one FLIP-IT can convert countless disks, doubling your memory each time. So **trouble-free**, we offer a 3-month warranty.

5 1/4" FLIP-IT



### aligned, accurate, safe way to make index-hole cutouts.

Send ☐ 5 1/4" FLIP-IT (\$24.95) ☐ 8" FLIP-IT (\$29.95).

(Mass. res. add 5% sales tax. Add \$2 ship & hdl. cont. U.S.; \$5, AK, HI & Canada; \$9, intl. orders.)

Name

Street

City, State, Zip

System  Printer

☐ MC ☐ VISA #

Mail to:

© Technology Enhancement Co., 70 Marcellus St.,  
Suite 128, Newton, MA 02159 • 617-527-3547.

## KAYPRO® SBASIC

Learn powerful SBASIC® from diskettes containing text and example programs. Developed for university and government Kaypro users, this format eliminates many learning obstacles by providing all text and programs ready to run on disk. The package includes the popular *Intermediate/Beginning Diskette* and the new *Advanced Diskette*.

The Advanced Diskette contains additional text and examples to illustrate disk file usage, and other more complicated SBASIC applications. Many of the examples make up practical programs, such as a label printer, that uses console or file input, including Perfect Writer®.

### SBASIC LEARNING DISKETTE

Intermediate/Beginning ..... \$20.00

Advanced ..... \$20.00

Both ..... \$30.00

30-DAY MONEY BACK GUARANTEE

(Previous purchasers may obtain the *Advanced Diskette*, and an updated *SBASIC LEARNING DISKETTE* by sending \$15.00 and the **ORIGINAL** diskette.)

  
**TARP**  
Consulting

**3851 North 28th Street, #141-B  
Phoenix, AZ 85016  
(602) 954-0899**

# Advertisers' index

Abacus Data, Inc. . . . . 1  
 Accent Graphics . . . . . 109  
 Advent Products, Inc. . . . . 81,89  
 Amber Visions . . . . . 108  
 AMCAD . . . . . 62  
 Arba Retail Systems . . . . . 34  
 Basic K Magazine . . . . . 61  
 Bee Mor Enterprises . . . . . 69  
 Bible Research SystemsG . . 103  
 Bits Power Systems, Inc. . . . 53  
 Business Master, Inc. . . . . 63  
 C. Atkinson . . . . . 92  
 CI Software . . . . . 99  
 CMB Enterprises . . . . . 85  
 Central Computer Products . . 20  
 CompuSophic . . . . . 76  
 Covers Unlimited . . . . . 111  
 Creative Computer Products . 33  
 Cuesta Systems . . . . . 96  
 Customs Electronics (K.I.P.S.) 111  
 Data Base Industries . . . . . 66  
 Data Solvers, Inc. . . . . 4  
 Dyna Comp . . . . . 101  
 E-Systems Berkeley . . . . . 18  
 Ellis Computing . . . . . 47  
 FMF & Co. . . . . 64  
 Family Computing, Inc. . . . . 84  
 Fin Tec . . . . . 97  
 Gamma Research . . . . . 78  
 Gilderfluke & Co. . . . . 107  
 H & E Computronics Back Cover  
 Huntington Data Systems . . 109  
 ICR Future Soft . . . . . 44  
 InfoWorld . . . . . 88  
 Kaypro Users Group . . . . . 10  
 KD Systems . . . . . 111  
 Krepec Software . . . . . 48  
 Legacy Computers . . . . . 45  
 Logical Extensions, Inc . . . . 104  
 Mannesmann Tally . . . . . 7  
 MasterMind Computing . . . . 94  
 MegaByte . . . . . 73  
 Micro Art Programmers . . . . 93  
 Micro Cornucopia . . . . . 36  
 Micro Lock . . . . . 19  
 Micro Peripherals, Inc. . . . .  
 . . . . . Inside Back Cover

MicroSphere . . . . . 55  
 Modems-R-Us . . . . . 108  
 Modern Office Management  
 Systems . . . . . 103  
 Okidata . . . . . Inside Front Cover  
 Omnilogic . . . . . 41  
 PeopleTalk Associates . . . . . 75  
 PluPerfect Systems . . . . . 94  
 Pro Micro Systems . . . . . 97  
 PROFILES Magazine . . . . . 100  
 Quasitronics . . . . . 29  
 Reliable Software . . . . . 85,105  
 Robonics . . . . . 24  
 Rocky Mountain Software  
 Systems . . . . . 11,56  
 SGW Enterprises . . . . . 43  
 SOS Computers . . . . . 28  
 Screen Data Corporation . . . 27  
 Software Research Systems . . 5  
 Software Store, The . . . . . 106  
 Software Toolworks, The . . . 104  
 Specialty Systems . . . . . 107  
 Spite Software . . . . . 79  
 Sunriser . . . . . 95  
 Swap File Full . . . . . 102  
 SWP . . . . . 16  
 Symbolized Systems, Inc. . . . 87  
 Systems House, The . . . . . 112  
 Systems Peripherals  
 Consultants . . . . . 11  
 T/Maker . . . . . 65  
 Tarp Consulting . . . . . 109  
 Transtar/Vivitar Computer  
 Products . . . . . 9  
 Twist, Inc. . . . . 111  
 Walonick & Associates . . . . 102  
 Win Com Publications . . . . . 71  
 Wingate Software . . . . . 105  
 X-Pert Software . . . . . 77

## USERS' GROUPS

(continued)

## WISCONSIN

MADKUG  
 1825 Monroe St.  
 Madison, WI 53711

WISKUG  
 2406 Springdale Rd., Apt. 101  
 Waukesha, WI 53186

## WYOMING

Laramie Computer Club  
 1050 N. 3rd St., Unit C-G  
 Laramie, WY 82070

## CANADA

KUTE  
 181 University Ave., Suite 1802  
 Toronto, ONT M5H 3M7

VIKOG  
 2584 Thompson Ave.  
 Victoria, BC V8R 3L3



## Get MOVING

Put your Kaypro to work when you move to a new house or office. Stop wondering, "Where did I pack the....?"

- Create an inventory as you pack.
- Print labels for boxes - contents and destination.
- Print inventory lists - detailed or summary, items and values.
- Locate items quickly - search by item, category, or destination.
- Easy to use. Comes with user's guide and quick-reference card.

### SPECIAL OFFER!

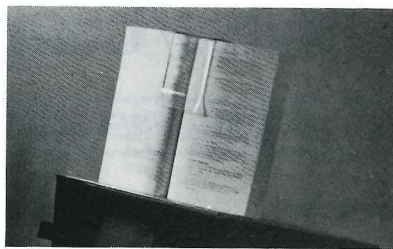
Free shipping if you get MOVING before July 31, 1984. Send \$39.95 today (Includes shipping, IL residents add 6% tax).

KD Systems, Inc.  
P. O. Box 2476  
Northbrook, IL 60062

Requires Kaypro II, 4, 10, printer settable to 12 char/inch. Also available in standard CP/M® format for most terminals. CP/M registered trademark of Digital Research, Inc. Kaypro trademark of Kaypro Corp.

Get MOVING Today!

## A NEW TWIST



### FAT JACK READING RACK

- ★ SEE COPY-SCREEN/KEYBOARD AT THE SAME TIME.
- ★ EASILY ATTACHED TO ANY KAYPRO™
- ★ 16" WIDE - AND STRONG FULLY SUPPORTS - BOOKS MAGAZINES • REPORTS WITH UNIQUE PAGECLIP™

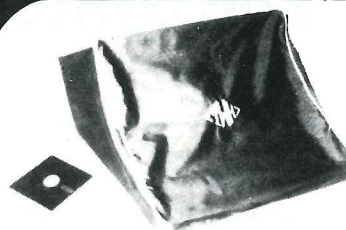
ONLY \$17.95 + \$1.50 Shipping  
(Continental U.S.A.)

Washington Residents Add \$1.45 Sales Tax.  
Cashier Checks & Money Orders Shipped Promptly.  
(Personal Checks Must Clear - 2 Weeks.)  
(Price & Configuration subject to change without notice.)

**The Best Accessory  
You'll Ever Buy For Your  
Kaypro™**

ORDER FROM:  
TWIST, INC.  
P.O. Box 1406, Renton, WA 98057

## Covers Unlimited™ (Formerly B.L. & W.)



Ideal for protecting delicate circuits and moving parts from harmful smoke, airborne dust and other contaminants. Outstanding Features:

- NEW, Heavy Poly/Cotton Fabric
- Four Decorator Colors — Cranberry, Navy, Pewter, Sand
- Covers for Most Makes and Models Plus Custom
- Designed to Fit • Monogramable
- Allows Ventilation • Durable
- Will Not Crack or Dry Out
- Perfect for Home or Office
- 7 - 10 Day Delivery
- Toll Free Calls • MC/Visa
- Satisfaction Guaranteed

WRITE OR CALL TODAY FOR COMPLETE LIST  
DEALERS WELCOME (Prices Incl. Shipping)

Covers Unlimited™ Sys./Mon. - \$19.00  
Box 381076 Kybds Only - \$14.00  
Germantown, TN38183 Prnt. - \$16.00  
800-821-7709 or 901-754-4465

# JOIN THE K.I.P.S. GROUP

## Kaypro Information, Peripherals & Software Group

Listings of Available Software, Including super low cost user group software, mail lists, accounting packages, custom application packages, etc., etc., etc.,

### Custom Software Development\*

Editorials, Articles & Periodicals

Newsletters - An absolute must for all Kaypro users

#### Including:

#### VIDEO MONITOR ADAPTER KIT •

Interface the Kaypro video output to any external monitor — Hooks up in minutes!

#### DISCOUNT SOFTWARE

LISTINGS OF ALL KNOWN KAYPRO SOFTWARE, GAMES, KNOWLEDGE, LEARNING AIDS, ETC.

#### DISCOUNT FIRMWARE

HARDWARE, BLANK DISKS, BOOKS, TEMPLATES, ETC...

**MODEMS, 8 INCH DISK ADAPTORS,  
BLANK DISKS, CABLES, PRINTERS, DESKS,  
MONITORS, HARD DISK ADAPTORS, ETC.**

Your One Source for all Kaypro Kits, Software, Peripheral & Supplies

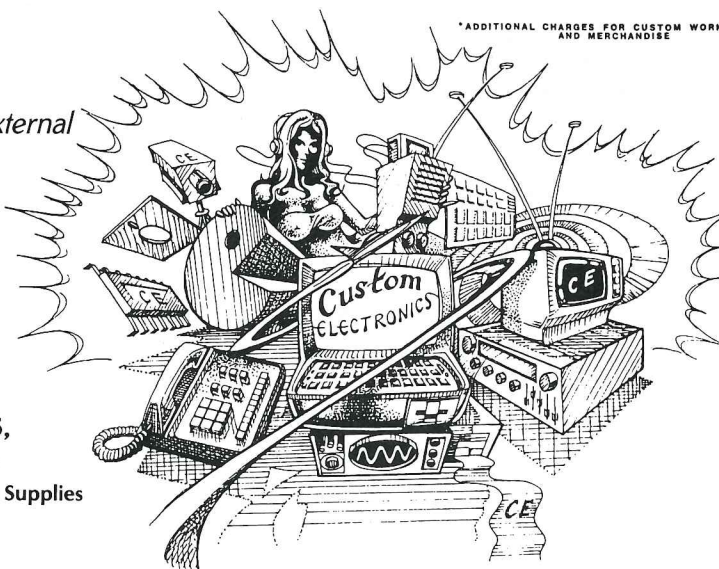
**ALL AT K.I.P.S. DISCOUNT PRICES!**

Year membership includes: Periodical mailings of Hardware and Software tips from users nationwide. ONLY \$14.95

CALL FOR SPECIAL DEALER-DISTRIBUTOR PRICING AND LOW COST ADVERTISING RATES

MAKE CHECKS PAYABLE TO: Custom Electronics • 3134 N. Palm • Fresno, CA 93704 • (209) 442-1816

WE'RE SO SURE YOU'LL JOIN  
SEND US A POST CARD AND  
WE'LL SEND ONE FREE COPY!



\*ADDITIONAL CHARGES FOR CUSTOM WORK AND MERCHANDISE

# The Systems House/Computer Shoppe

**TO ORDER, CALL TOLL FREE 800/368-8088**

We're a one-stop shop for software, hardware, or accessories for your Kaypro! We're on top of the ever-increasing number of items available for the Kaypro II, 4 and 10.

We've installed a bulletin board at our store which can be accessed via modem. Through it users can exchange information and questions or find other users with similar interests.

The number is 703/759-6627.

## ☐ **HARDWARE**

**Hard Disk Add-on.** An external hard disk is a great alternative for those who need large amounts of storage. For less than \$2000, a detachable 20 megabyte Delphi hard disk can be added to the Kaypro.

**8088 Board Upgrade.** We can add a 16-bit 8088 board to your Kaypro II, 4 or 10. It allows use of some 16-bit software and also the use of the 256k as a very fast RAM disk under 8-bit operation.

**High Speed Upgrade.** A higher clock speed is especially helpful for spreadsheet calculations and large word processing files. We have several types of high speed boards.

**Amber Monitors.** These screens are easy on the eyes, especially in reverse video as is seen on the Wordstar menu on the Kaypro 10 and the new Kaypro 4.

**Kaypro Service.** We do warranty and non-warranty repairs, usually on a same-day basis. Please call for an appointment.

## ☐ **ACCESSORIES & SUPPLIES**

**Kaypro Travel Bags** will protect your Kaypro during travel. Fully padded and weather-resistant. Includes a shoulder strap and side pocket.

**The CP/M Bible.** Another essential for Kaypro users and our favorite guide to the CP/M operating system. It's explanations are clear and very well indexed.

**Dust Covers** are available for Kaypros and printers. We have several different styles that are described in our catalog.

**The Compleat Kaypro** is a book every Kaypro owner should have. It gives good information on using the computer including reviews of many different software packages available for the Kaypro.

The following is a partial list of items available for the Kaypro.

**Call or write for our complete catalog.**

## **The Computer Shoppe**

Village Center, Box 617

Great Falls, VA 22066

703/759-6800

## ☐ **SOFTWARE**

**Uniform Disk Format Conversion Software.**

With this software the Kaypro can read and write disks in formats of other computers. Uniform is mainly used to transfer data files from one computer to another. The Kaypro II can read 21 single-sided formats. The Kaypro 4 and 10 can read those 21 formats plus 17 double-sided formats.

**Bibliofile** was written for authors with large numbers of bibliographic references. Bibliofile can alphabetize bibliographies, can search by one or more fields (e.g., author, keyword, title) and can print references in many different user-definable formats.

**BDS "C" Compiler** is a fast C compiler for quick, clean software development.

**AMCALL** communications package is menu-driven with extensive help files, 7 protocols and room for storage of 26 phone numbers.

**SmartKey II** can be used to program any key to type out a string of characters. Use it to avoid typing often-used standard phrases, or to execute complicated processing commands with just one keystroke.

**Graphics Software** will allow you to create pie, line and bar charts on your dot matrix printer without requiring graphics on your screen. We have several different types of software to meet your particular business or scientific application.

**Educational and Recreational Software.** We've collected a wide variety of topics including math, science and spelling plus tutorials in foreign languages, MBASIC, and touch typing.

**Accounting Software.** We carry a variety of Accounting Software for small or large businesses.

# Sprinter<sup>TM</sup>



## Portable



A new generation printer that combines portability, dependability and quality. **Sprinter** is travel convenience — lightweight and rugged with an easily removable travel cover and plenty of space for storage.



## Personal

A friendly printer that is easy to operate. Ease of operation is top priority for this printer. A **SoftSwitch<sup>TM</sup> Control Pad** allows the user to control forms' length, print density, tabulations, baud rate and character sets.

## Professional

A fast printer, the 160 CPS **Sprinter** comes standard with a 4K buffer expandable to 68K with MPI's **MemoryMate<sup>TM</sup>** option. It comes equipped with an **EasyLoad<sup>TM</sup>** front paper feed for quick paper insertion and handles everything from letterhead to multi-part forms.



### Travel with the Best!

See the Sprinter at your local computer store or call us for the dealer nearest you. 1 (800) 821-8848

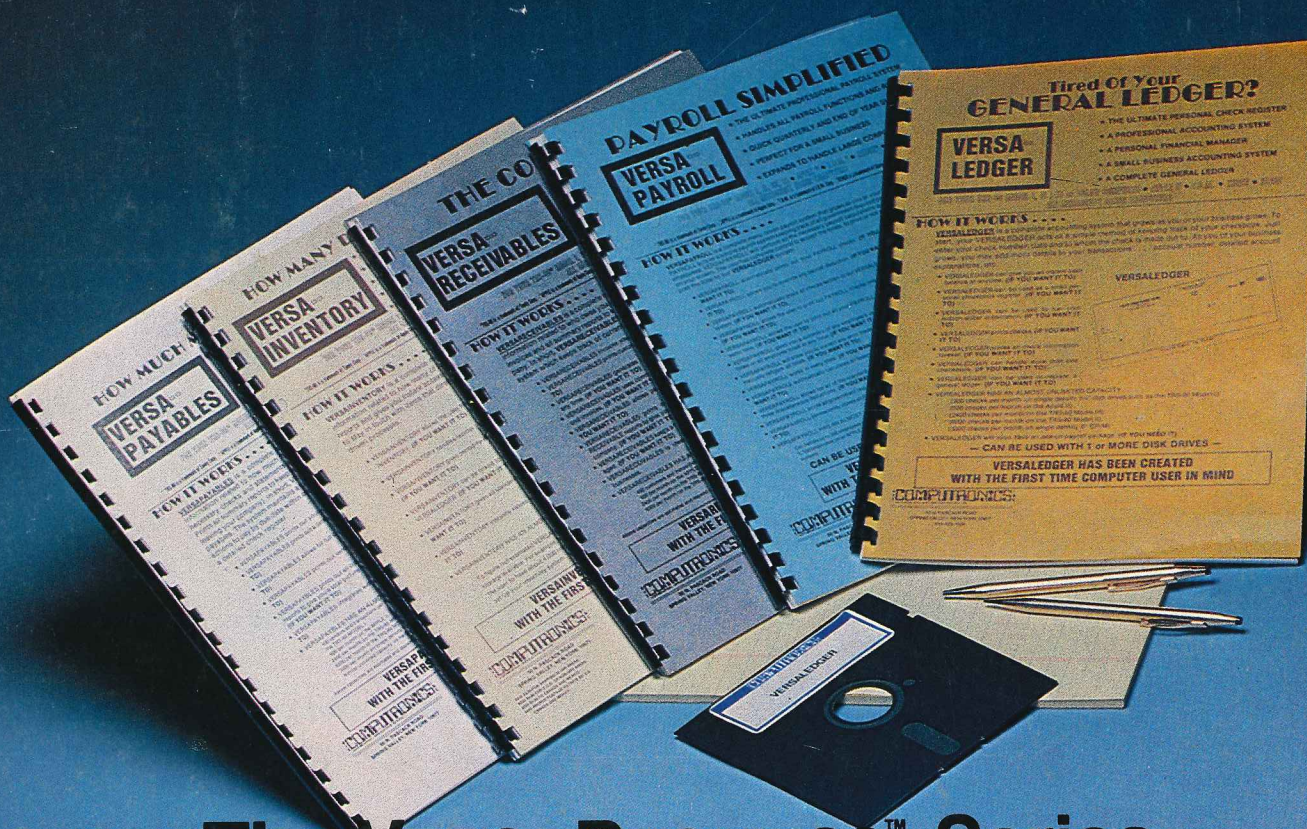


**Micro Peripherals, Inc.**

4426 So. Century Dr. • SLC, UT. 84123  
(801) 263-3081

# Introducing the Most Powerful Business Software Ever!

FOR YOUR TRS-80 • IBM • APPLE • **KAYPRO** • COMMODORE 64 • MSDOS OR CP/M COMPUTER\*



## The VERSABUSINESS™ Series

Each VERSABUSINESS module can be purchased and used independently, or can be linked in any combination to form a complete, coordinated business system.

### VERSA RECEIVABLES™ \$99.95

VERSA RECEIVABLES™ is a complete menu-driven accounts receivable, invoicing, and monthly statement-generating system. It keeps track of all information related to who owes you or your company money, and can provide automatic billing for past due accounts. VERSA RECEIVABLES™ prints all necessary statements, invoices, and summary reports and can be linked with VERSA LEDGER II™ and VERSA INVENTORY™.

### VERSA PAYABLES™ \$99.95

VERSA PAYABLES™ is designed to keep track of current and aged payables, keeping you in touch with all information regarding how much money your company owes, and to whom. VERSA PAYABLES™ maintains a complete record on each vendor, prints checks, check registers, vouchers, transaction reports, aged payables reports, vendor reports, and more. With VERSA PAYABLES™, you can even let your computer automatically select which vouchers are to be paid.

### VERSA PAYROLL™ \$99.95

VERSA PAYROLL™ is a powerful and sophisticated, but easy to use payroll system that keeps track of all government-required payroll information. Complete employee records are maintained, and all necessary payroll calculations are performed automatically, with totals displayed on screen for operator approval. A payroll can be run totally, automatically, or the operator can intervene to prevent a check from being printed, or to alter information on it. If desired, totals may be posted to the VERSA LEDGER II™ system.

### VERSA INVENTORY™ \$99.95

VERSA INVENTORY™ is a complete inventory control system that gives you instant access to data on any item. VERSA INVENTORY™ keeps track of all information related to what items are in stock, out of stock, on backorder, etc., stores sales and pricing data, alerts you when an item falls below a preset reorder point, and allows you to enter and print invoices directly or to link with the VERSA RECEIVABLES™ system. VERSA INVENTORY™ prints all needed inventory listings, reports of items below reorder point, inventory value reports, period and year-to-date sales reports, price lists, inventory checklists, etc.

### VERSA LEDGER II™ \$149.95

VERSA LEDGER II™ is a complete accounting system that grows as your business grows. VERSA LEDGER II™ can be used as a simple personal checkbook register, expanded to a small business bookkeeping system or developed into a large corporate general ledger system **without any additional software.**

- VERSA LEDGER II™ gives you almost unlimited storage capacity (300 to 10,000 entries per month, depending on the system),
- stores all check and general ledger information forever,
- prints tractor-feed checks,
- handles multiple checkbooks and general ledgers,
- prints 17 customized accounting reports including check registers, balance sheets, income statements, transaction reports, account listings, etc.

VERSA LEDGER II™ comes with a professionally-written 160 page manual designed for first-time users. The VERSA LEDGER II™ manual will help you become quickly familiar with VERSA LEDGER II™, using complete sample data files supplied on diskette and more than 50 pages of sample printouts.

### SATISFACTION GUARANTEED!

Every VERSABUSINESS™ module is guaranteed to outperform all other competitive systems, and at a fraction of their cost. If you are not satisfied with any VERSABUSINESS™ module, you may return it within 30 days for a refund. Manuals for any VERSABUSINESS™ module may be purchased for \$25 each, credited toward a later purchase of that module. All CP/M-based Computers must be equipped with Microsoft BASIC (MBASIC or BASIC-80).

#### To Order:

Write or call Toll-free (800) 431-2818  
(N.Y.S. residents call 914-425-1535)

- \* add \$3 for shipping in UPS areas
- \* add \$4 for C.O.D. or non-UPS areas

- \* add \$5 to CANADA or MEXICO
- \* add proper postage elsewhere

#### DEALER INQUIRIES WELCOME

All prices and specifications subject to change / Delivery subject to availability.



# COMPUTRONICS

50 N. PASCACK ROAD, SPRING VALLEY, N.Y. 10977

\*The VersaBusiness Series is available for TRS-80 · IBM · APPLE · KAYPRO · COMMODORE 64 · OSBORNE · XEROX · TELEVIDEO · SANYO · ZENITH · NEC · DEC · TI · EPSON · MORROW · MICRO DECISION · NORTHSTAR · MSDOS and CP/M computers with 8" disk drives (Computer names are tradenames and/or trademarks of their respective manufacturers).